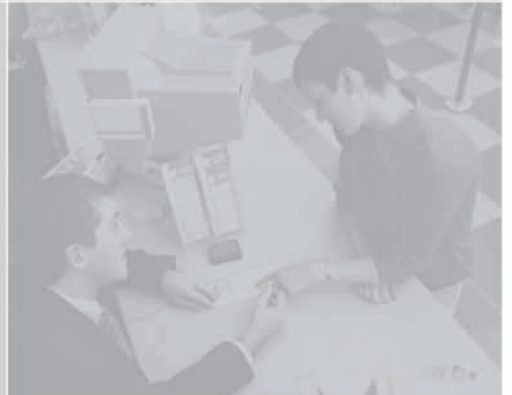


# SONY®

NTSC/PAL

## IP Video Monitoring and CCTV Systems



Connect Your Vision



# TABLE OF CONTENTS

<b>PRODUCT LINEUP</b>	
.....	2
<b>NETWORK CAMERAS</b>	
.....	4
<b>ANALOG CAMERAS</b>	
.....	12
<b>CAMERA ADAPTORS</b>	
.....	18
<b>INTELLIGENT MONITORING SOFTWARE</b>	
.....	19
<b>NETWORK RECORDERS</b>	
.....	20
<b>DIGITAL HARD DISK RECORDERS</b>	
.....	21
<b>VIDEO NETWORK STATIONS</b>	
.....	23
<b>MONITORS</b>	
.....	24
<b>SPECIFICATIONS</b>	
Network Cameras .....	25
Analog Cameras .....	32
Camera Adaptors .....	35
Intelligent Monitoring Software .....	35
Network Recorders .....	36
Digital Hard Disk Recorders .....	37
Video Network Stations .....	39
Monitors .....	40
<b>SYSTEM CONFIGURATIONS</b>	
CCTV Systems .....	41
IP-Based Video Monitoring Systems using Analog Cameras .....	42
IP Video Monitoring Systems .....	43

# PRODUCT LINEUP

## IP Video Monitoring Systems

### Network Cameras

#### PTZ Cameras

##### SNC-RX550N/SNC-RX550P **NEW**

- High Performance
- 360-Degree Endless Rotation
- x26 Optical Zoom



IPELA

##### SNC-RZ50N/SNC-RZ50P **NEW**

- High Performance
- x26 Optical Zoom



IPELA

##### SNC-RZ30N/2, SNC-RZ30P/2

- x25 Optical Zoom



IPELA

##### SNC-RZ25/SNC-RZ25P

- x18 Optical Zoom



IPELA

##### SNC-P5

- x3 Optical Zoom



IPELA

#### Fixed-Type Cameras

##### SNC-CS50N/SNC-CS50P **NEW**

- High Performance
- Auto-Iris Vari-Focal Lens



IPELA

##### SNC-Z20N/SNC-Z20P **NEW**

- x18 Auto-Focus Zoom Lens



IPELA

##### SNC-CS3N/SNC-CS3P

- Auto-Iris Vari-Focal Lens



IPELA

##### SNC-P1

- Compact and Lightweight



IPELA

#### Mini Dome Cameras

##### SNC-DF70N/SNC-DF70P

- Indoor/Outdoor Use
- Auto-Iris Vari-Focal Lens



IPELA

##### SNC-DF40N/SNC-DF40P

- Auto-Iris Vari-Focal Lens



IPELA

### Monitoring Software

#### IMZ-RS300 Series

- Remote Control and Monitoring
- Support for up to 32 Cameras



### Network Recorders

#### NSR Series **NEW**

- High-Capacity HDDs
  - 1,000 GB (NSR-100)
  - 500 GB (NSR-50)
  - 250 GB (NSR-25)



IPELA

### Video Network Stations

#### SNT-V704

- Support for up to Four Analog Cameras



IPELA

## Analog Video Monitoring Systems

### Analog Cameras

#### Fixed-Type Color Cameras

##### SSC-E470 Series

- Super Exwave Technology
- High Horizontal Resolution of 540 TV Lines
- Slim and Stylish Design



##### SSC-E450 Series

- Super Exwave Technology
- High Horizontal Resolution of 540 TV Lines
- Slim and Stylish Design



##### SSC-DC80 Series

- Variable Gamma Curve
- Slim and Stylish Design



##### SSC-DC590 Series

- Wide Dynamic Range
- Compact and Lightweight



##### SSC-DC370 Series

- High Horizontal Resolution
- Compact and Lightweight



##### SSC-DC198P

- Compact and Lightweight



##### SSC-DC174/SSC-DC172P

- AC 24 V Operation (SSC-DC174)
- DC 12 V Operation (SSC-DC172P)
- Compact and Lightweight



#### Fixed-Type B/W Cameras

##### SSC-M383/SSC-M383CE

##### SSC-M388CE

- High Horizontal Resolution of 570 TV Lines
- Compact and Lightweight



##### SSC-M183/SSC-M183CE

##### SSC-M188CE

- Compact and Lightweight



#### Mini Dome Cameras

##### SSC-CD73V/SSC-CD73VP

- Indoor/Outdoor Use
- Auto-Iris Vari-Focal Lens



##### SSC-CD43V/SSC-CD43VP

- Auto-Iris Vari-Focal Lens



### Digital Hard Disk Recorders

##### HSR-X206/HSR-X206P

- 6 Analog Camera Inputs
- Network Capability - Ethernet 10/100Base-T

Motion-JPEG



##### HSR-J2009/HSR-J2009P **NEW**

##### HSR-J2016/HSR-J2016P

- 9 Analog Camera Inputs (HSR-J2009/J2009P)
- 16 Analog Camera Inputs (HSR-J2016/J2016P)
- Network Capability - Ethernet 10/100Base-T

JPEG2000



### Camera Adaptors

##### YS-W270A/YS-W270P

- Support for up to Four Analog Cameras



##### YS-W170A/YS-W170P

- Support for a Single Analog Camera



### LCD Monitors

##### LMD-1410SC/LMD-2010SC **NEW**

- 14-inch (LMD-1410SC)
- 20-inch (LMD-2010SC)
- Analog Composite, Y/C(S-Video), RGB/Component Inputs



# NETWORK CAMERAS

## IPELA

Stunning video and audio brought to you by the "IPELA" series of visual communication products that encompass the three-pronged concept of "Reality," "Intelligence," and "Usability." "IPELA" is the identity symbolizing the Sony vision for the workplace of the future, connecting people, places, and information with reality that has never before been achieved. "IPELA" lets you share ideas and dreams as if you are collocated when your counterpart is half-way around the world, experiencing images as if you are actually there.

Real audiovisual communication over networks – this is business communication of the future, this is business communication brought to you today, this is "IPELA."

### PTZ Camera

SNC-RX550N/SNC-RX550P

NEW



## IPELA



- 360-degree endless rotation IP network color camera with tilt/zoom capability
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Optical 26x auto-focus zoom lens allows users to view wide areas or to zoom in on small or distant objects
- High picture quality - 1/4-type CCD with Exwave HAD™ technology
- High sensitivity - Color: 1.0 lx, B/W: 0.15 lx (F1.6, 50IRE)
- High-frame rate of up to 30 fps (NTSC) /25 fps (PAL) at 640 x 480 sized images
- Three selectable image sizes
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits bitrate while maintaining high-quality images
- Dynamic Frame Integration technology - provides clear and smooth images for both still and moving objects
- Intelligent Motion Detection and Intelligent Object Detection\*1
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- Spherical privacy zone masking function
- Date/Time superimposition function
- External microphone input and speaker output for audio monitoring
- Voice alert function
- Dual encoding capability - generates both JPEG and MPEG-4 images simultaneously
- Image stabilizer
- Anti-tampering function\*2
- Adaptive Rate Control function - provides smooth video over a network by adjusting compression bit rate and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20 users
- Network security features - IP filtering/Password protection
- Mechanical "Auto Flip" function for displaying images in the proper orientation
- Memory Stick™ and PC card slots - supports the optional SNCA-CFW1 Wireless Card when used in combination with a Compact Flash™ Type PC card adaptor
- Analog composite video output for local analog monitoring or recording
- RS-232C transparency interface and VISCA™ protocol
- Color variation - Black and white

\*1 The Intelligent Object Detection function and Intelligent Motion Detection function cannot be used simultaneously.

\*2 This function is available only with recording software that complies with the Sony digital signature scheme.



SNC-RX550N/SNC-RX550P Rear Panel

## PTZ Camera

SNC-RZ50N/SNC-RZ50P

NEW



IPELA

JPEG  
MPEG-4  
H.264



- Compact IP network color camera with pan/tilt/zoom capability
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Optical 26x auto-focus zoom lens allows users to view wide areas or to zoom in on small or distant objects
- Pan/Tilt operation - 340 degree Pan range/115 degree Tilt range
- High picture quality - 1/4-type Super HAD CCD™
- High sensitivity - Color: 2.2 lx, B/W: 0.3 lx (F1.6, 50IRE)
- High-frame rate of up to 30 fps (NTSC) /25 fps (PAL) at 640 x 480 sized images
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Dynamic Frame Integration technology - provides clear and smooth images for both still and moving objects
- Three selectable image sizes
- Spherical privacy zone masking function
- Date/Time Superimposition function
- External microphone input and speaker output for audio monitoring
- Voice Alert function
- Intelligent Motion Detection and Intelligent Object Detection<sup>\*3</sup>
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- Dual encoding capability - generates both JPEG and MPEG-4 images simultaneously
- Image Stabilizer
- Anti-Tampering function<sup>\*4</sup>
- Adaptive Rate Control function - provides smooth video over a network by adjusting compression bit rate and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20 users
- DDNS support enables assignment of unique host name when using dynamic IP addresses<sup>\*5</sup>
- Network security features - IP filtering/Password protection
- Compact Flash and PC card slots - support the optional SNCA-CFW1 Wireless Card
- Desktop or ceiling-mount design
- Analog composite video output for local analog monitoring or recording
- RS-232C transparency interface and VISCA protocol

<sup>\*3</sup> The Intelligent Object Detection function and Intelligent Motion Detection function cannot be used simultaneously.

<sup>\*4</sup> This function is available only with recording software that complies with the Sony digital signature scheme.

<sup>\*5</sup> Requires registration at the following site: [www.snccam.net](http://www.snccam.net)



SNC-RZ50N/SNC-RZ50P Rear Panel

# NETWORK CAMERAS

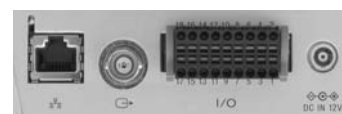
## PTZ Camera

SNC-RZ30N/2, SNC-RZ30P/2



- High performance IP network color camera with integrated pan/tilt/zoom
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Optical 25x auto-focus zoom lens covers a wide range of viewing angles
- Pan/Tilt operation - 340 degree Pan range/115 degree Tilt range
- High-speed and quiet pan/tilt mechanism
- High picture quality - 1/6-type Super HAD CCD
- High sensitivity - Color: 2.5 lx, B/W: 0.1 lx (F1.6, 50IRE)
- High-frame rate of up to 30 fps (SNC-RZ30N/2)/25 fps (SNC-RZ30P/2) at 640 x 480) sized images
- Four selectable image sizes
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Activity detection and alarm trigger functions
- Image transfer using FTP or SMTP
- Image stabilizer
- Simultaneous access - up to 50 users
- Network security features - IP filtering/Password protection
- Analog composite video output for local analog viewing or recording
- RS-232C/RS-485 transparency interface for control and operation of external equipment
- Two Type II PC card\*6 slots - supports Memory Stick, Flash memory card, and ATA HDD card
- Desktop or ceiling-mount operation

\*6 Please contact your local Sony sales office for compatible PC cards.



SNC-RZ30N/2, RZ30P/2 Rear Panel

## PTZ Camera

SNC-RZ25N/SNC-RZ25P



IPELA



- All-in-one IP network color camera with integrated pan/tilt/zoom
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Optical 18x auto-focus zoom lens covers a wide range of viewing angles
- Pan/Tilt operation - 340 degree Pan range/120 degree Tilt range
- High picture quality - 1/4-type CCD with Exwave HAD technology
- High sensitivity - Color: 0.7 lx, B/W: 0.06 lx (F1.4, 50IRE)
- High-frame rate of up to 30 fps (SNC-RZ25N)/25 fps (SNC-RZ25P) at 320 x 240 sized images
- Six selectable image sizes
- Five preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Motion detection\*7 and alarm trigger functions
- Image transfer using FTP or SMTP
- External microphone input and speaker output for audio monitoring
- Adaptive rate control function provides smooth video over network by adjusting compression ratio and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20 (JPEG mode)/10 (MPEG mode) users
- DDNS support enables assignment of unique host name when using dynamic IP addresses\*8
- Networking security features - IP filtering/Password protection
- Analog composite video output for local analog viewing or recording
- Compact Flash Type card slot - supports an optional SNCA-CFW1 Wireless Card or Compact Flash memory card
- Desktop or ceiling-mount operation

\*7 Motion detection can be used only when the camera is set to MPEG-4 mode.

\*8 Requires registration at the following site: [www.snccam.net](http://www.snccam.net)



SNC-RZ25N/RZ25P Rear Panel



## PTZ Camera SNC-P5



**IPELA**

JPEG

MPEG-4

- All-in-one IP network color camera with integrated pan/tilt/zoom
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- High-frame rate of up to 30 fps at 320 x 240 sized images
- Six selectable image sizes
- Five preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- External microphone input and speaker output for bidirectional audio capability
- Pan/Tilt operation- 120 degree Pan range/ 75 degree Tilt range
- Optical 3x zoom capability
- Motion detection<sup>\*9</sup> and alarm trigger function
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- Adaptive rate control function provides smooth video over a network by adjusting compression ratio and frame rate automatically
- Multicasting capability
- Simultaneous access up to 20(JPEG mode)/10(MPEG-4 mode) users
- DDNS support enables assignment of unique host name when using dynamic IP address<sup>\*10</sup>
- Networking security features - IP filtering/Password protection
- Compact Flash type card slot- support for optional SNCA-CFW1 Wireless Card or Compact Flash memory card
- Desk top or ceiling-mounted installation
- Analog composite video output for local analog viewing or recording
- Can be used in outdoor environment with the optional SNCA-HP5 Housing Kit

<sup>\*9</sup> Motion detection can be used only when the camera is set to MPEG-4 mode.

<sup>\*10</sup> Requires registration at the following site: [www.snccam.net](http://www.snccam.net)



SNC-P5 Rear Panel

# NETWORK CAMERAS

## Fixed-Type Camera

SNC-CS50N/SNC-CS50P

NEW



IPELA



- High performance IP network color camera
- Vari-focal lens with auto iris function
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- High picture quality - 1/3-type CCD with SuperExwave™ technology
- High sensitivity - Color: 0.4 lx, B/W: 0.04 lx (F 0.95, 50IRE)
- High-frame rate of up to 30 fps (NTSC) /25 fps (PAL) at 640 x 480 sized images
- Three selectable image sizes
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Dynamic Frame Integration technology - provides clear and smooth images for both still and moving objects
- Date/Time superimposition function
- External microphone input and speaker output for audio monitoring
- Voice Alert function
- Intelligent Motion Detection and Intelligent Object Detection<sup>\*11</sup>
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- Dual encoding capability - generates both JPEG and MPEG-4 images simultaneously
- Image Stabilizer
- Anti-Tampering function<sup>\*12</sup>
- Adaptive Rate Control function provides smooth video over a network by adjusting compression bit rate and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20 users
- Network security features - IP filtering/Password protection
- PC card slot - supports the optional SNCA-CFW1 Wireless Card when used in combination with a Compact Flash Type PC card adaptor
- Analog composite video output for local analog monitoring or recording
- RS-232C transparency interface
- AC 24 V, DC 12 V, or PoE operation

<sup>\*11</sup> The Intelligent Object Detection function and Intelligent Motion Detection function cannot be used simultaneously.

<sup>\*12</sup> This function is available only with recording software that complies with the Sony digital signature scheme.



SNC-CS50N/SNC-CS50P Rear Panel

## Fixed-Type Camera

### SNC-Z20N/SNC-Z20P



- Fixed All-in-one IP network color camera with integrated zoom lens
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Optical 18x auto-focus zoom lens covers a wide range of viewing angles
- High picture quality - 1/4-type CCD with Exwave HAD technology
- High sensitivity - Color: 0.7 lx, B/W: 0.01 lx (F1.4, 50IRE)
- High frame rate of up to 30 fps (SNC-Z20N)/25 fps (SNC-Z20P) at 640 x 480 sized images
- Four selectable image sizes
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Activity detection and alarm trigger functions
- Image transfer using FTP or SMTP
- Simultaneous access - up to 50 users
- Network security features - IP filtering/password protection
- Wireless connection capability<sup>\*15</sup>
- Analog composite video output for local analog viewing or recording
- RS-232C transparency interface for control and operation of external equipment
- PC card slot - supports for Memory Stick™, Flash ATA memory card, and ATA HDD card
- AC 24 V or DC 12 V external power capability

<sup>\*15</sup> Please contact your local Sony sales office or authorized dealer for compatible PC and wireless cards.



SNC-Z20N/Z20P Rear Panel

## NETWORK CAMERAS

### Fixed-Type Camera

SNC-CS3N/SNC-CS3P



JPEG

- Fixed All-in-one IP network color camera with CS-mount auto iris vari-focal lens
- Remote monitoring from a PC using Microsoft Internet Explorer, Sony IMZ-RS Series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Auto-iris vari-focal lens (f=3.0 to 8.0 mm, F1.0)
- High picture quality - 1/3-type CCD with Exwave HAD technology
- High sensitivity - 0.5 lx at F1.0
- High frame rate of up to 30 fps (SNC-CS3N)/25 fps (SNC-CS3P) at 640 x 480 sized images
- Four selectable image sizes
- Ten preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Activity detection and alarm trigger functions
- Image transfer using FTP or SMTP
- Simultaneous access - up to 50 users
- Network security features - IP filtering/password protection
- Analog composite video output for local analog viewing or recording
- RS-232C transparency interface for control and operation of external equipment
- Selectable power supply - automatically selects AC 24 V or DC 12 V for proper operation



SNC-CS3N/CS3P Rear Panel

### Fixed-Type Camera

SNC-P1



IPELA

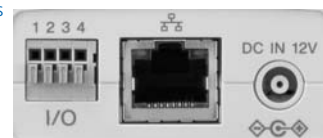
JPEG

MPEG-4

- Compact and slim design
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- High-frame rate of up to 30 fps at 320 x 240 sized images
- Six selectable image sizes
- Five preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- External microphone input and speaker output for bidirectional audio capability
- Motion detection<sup>\*16</sup> and alarm trigger function
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- Adaptive rate control function provides smooth video over a network by adjusting compression ratio and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20(JPEG mode)/10(MPEG-4 mode) users
- DDNS support enables assignment of unique host name when using dynamic IP addresses<sup>\*17</sup>
- Network security features - IP filtering/Password protection
- Desktop, wall-mounted, or ceiling-mounted installation
- Analog composite video output for local analog viewing or recording

<sup>\*16</sup> Motion detection can be used only when the camera is set to MPEG-4 mode.

<sup>\*17</sup> Requires registration at the following site:  
[www.snccam.net](http://www.snccam.net)



SNC-P1 Rear Panel

## Mini Dome Camera

### SNC-DF70N/SNC-DF70P



IPELA



- All-in-one IP network mini dome color camera for both outdoor and indoor use
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Built-in CS-mount auto iris 2.7x vari-focal lens covers wide viewing angles
- Rugged design - IP66<sup>\*18</sup> rated
- High-picture quality - 1/4-type Super HAD CCD
- Horizontal resolution - 480 TV lines
- High sensitivity Color: 0.9 lx, B/W: 0.2 lx (F1.0, 50IRE)
- High-frame rate of up to 30 fps (SNC-DF70N)/25 fps (SNC-DF70P) at 320 x 240 sized images
- Six selectable image sizes
- Five preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Motion detection<sup>\*19</sup> and alarm trigger function
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- External microphone input and speaker output for bidirectional audio capability
- Wall-mounted or ceiling-mounted installation
- Adaptive rate control function provides smooth video over a network by adjusting compression ratio and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20(JPEG mode)/10 (MPEG-4 mode) users
- Network security features - IP filtering/Password protection
- Analog composite video output for local analog viewing or recording

<sup>\*18</sup> Ingress Protection(IP) standard is a system for numerically classifying the degree of protection provided by enclosures of electrical equipment against solid objects and liquids. IP66 means there is no ingress of dust and the equipment is protected against powerful water jets.

<sup>\*19</sup> Motion detection can be used only when the camera is set to MPEG-4 mode.

## Mini Dome Camera

### SNC-DF40N/SNC-DF40P



IPELA



- All-in-one IP network mini dome color camera
- Remote monitoring from PCs using Microsoft Internet Explorer, Sony IMZ-RS series Intelligent Monitoring Software, or Sony Network Surveillance Recorders
- Built-in CS-mount auto auto iris 2.7x vari-focal lens covers wide viewing angles
- High-picture quality - 1/4-type Super HAD CCD
- Horizontal resolution - 480 TV lines
- High sensitivity - 0.8 lx (F1.0, 50IRE)
- High-frame rate of up to 30 fps (SNC-DF40N)/25 fps (SNC-DF40P) at 320 x 240 sized images
- Six selectable image sizes
- Five preset JPEG picture quality settings with constant bitrate algorithm - limits data bitrate while maintaining high-quality images
- Motion detection<sup>\*20</sup> and alarm trigger function
- Pre-/Post-Alarm image storage
- Image transfer using FTP or SMTP
- External microphone input and speaker output for bidirectional audio capability
- Wall-mounted or ceiling-mounted installation
- Adaptive rate control function provides smooth video over a network by adjusting compression ratio and frame rate automatically
- Multicasting capability
- Simultaneous access - up to 20(JPEG mode)/10 (MPEG-4 mode) users
- Network security features - IP filtering/Password protection
- Analog composite video output for local analog viewing or recording

<sup>\*20</sup> Motion detection can be only used when the camera is set to MPEG-4 mode.

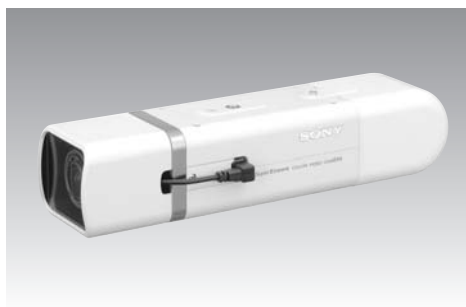


SNC-DF40N/DF40P Rear Panel

# ANALOG CAMERAS

## Fixed-Type Cameras

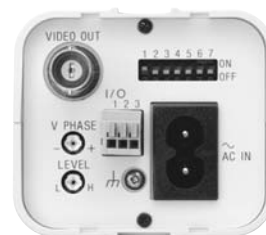
SSC-E473/SSC-E473P/SSC-E478P



- 1/3-type CCD with SuperExwave technology
- Advanced Digital Signal Processing (DSP) technology - provides high-horizontal resolution of 540 TV lines
- High sensitivity - Color: 0.55 lx, B/W: 0.05 lx (F1.2, 50IRE)
- Slim and stylish design equipped with front and rear covers
- CCD IRIS function allows for the use of low cost manual iris lenses
- Backlight compensation: ON/OFF switchable
- AGC: TURBO/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-E473), 1/50 to 1/100,000 s (SSC-E473P, SSC-E478P))
- Selectable Auto White balance mode: ATW/ATW pro
- DC-Servo lens connection capability
- CS-mount
- Variety of power options  
SSC-E473/473P: automatically selects AC 24 V or DC 12 V for proper operation  
SSC-E478P: AC 220 to 240 V operation



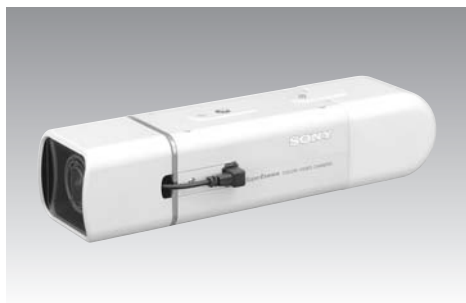
SSC-E473/E473P Rear Panel



SSC-E478P Rear Panel

## Fixed-Type Cameras

SSC-E453/SSC-E453P/SSC-E458P



- 1/3-type CCD with SuperExwave technology
- Advanced Digital Signal Processing (DSP) technology - provides high-horizontal resolution of 540 TV lines
- High sensitivity - 0.55 lx (F1.2, 50IRE)
- Slim and stylish design equipped with front and rear covers
- CCD IRIS function allows for the use of low cost manual iris lenses
- Backlight compensation: ON/OFF switchable
- AGC: TURBO/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-E453), 1/50 to 1/100,000 s (SSC-E453P, SSC-E458P))
- Selectable Auto White balance mode: ATW/ATW pro
- DC-Servo lens connection capability
- CS-mount
- Variety of power options  
SSC-E453/453P: automatically selects AC 24 V or DC 12 V for proper operation  
SSC-E458P: AC 220 to 240 V operation



SSC-E453/E453P Rear Panel



SSC-E458P Rear Panel

## Fixed-Type Cameras

### SSC-DC80/SSC-DC80P/SSC-DC83/SSC-DC83P/SSC-DC88P



- 1/2-type CCD with Exwave HAD technology
- Horizontal resolution - 480TV lines
- High sensitivity - 0.4 lx (F1.2, 50IRE)
- AGC: TURBO/NORMAL/MANUAL/OFF switchable
- Aperture: SHARP/SOFT/NORMAL switchable
- White balance: ATW PRO/ATW/3200K/5600K/MANUAL switchable
- Backlight compensation: SPOT/WEIGHT/OFF switchable
- Four selectable gamma curves
- Accepts video - or DC-servo lenses
- Camera title indicator
- CS/C-mount<sup>\*21</sup>
- SSC-DC80/DC80P provides single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W170A/W270A (for SSC-DC80) and YS-W170P/W270P (for SSC-DC80P) camera adaptor
- Variety of power options  
SSC-DC80/DC80P: DC 12 V operation  
SSC-DC83/DC83P: automatically selects AC 24 V or DC 12 V for proper operation  
SSC-DC88P: AC 220 to 240 V operation

<sup>\*21</sup> C-mount adaptor is supplied



SSC-DC80/DC80P Rear Panel



SSC-DC83/DC83P Rear Panel

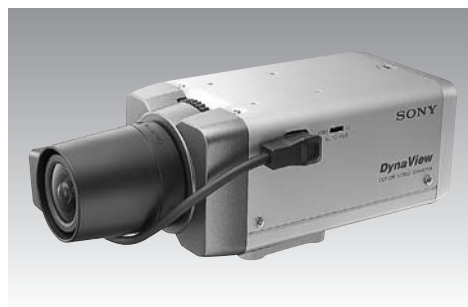


SSC-DC88P Rear Panel

# ANALOG CAMERAS

## Fixed-Type Cameras

SSC-DC590/SSC-DC593/SSC-DC593P/SSC-DC598P



- 1/3-type CCD with DynaView technology
- Wide dynamic range with DynaView™ technology - ideal for obtaining clear color images under severe highlight or backlight conditions
- Horizontal resolution - 480 TV lines
- High sensitivity - Color: 0.8 lx, B/W: 0.07 lx (F1.4, 50 IRE)
- AGC: TURBO/NORMAL/MANUAL/OFF switchable
- Aperture: SHARP/SOFT/NORMAL switchable
- White balance: ATW PRO/ATW/3200K/5600K/MANUAL/DUAL switchable
- Backlight compensation: DYNAVUEW/SPOT/WEIGHT/OFF switchable
- Four selectable gamma curves
- Accepts video - or DC-servo lenses
- Camera title indicator
- Wide range of CCD shutter speed (1/60 to 1/100,000 s, (SSC-DC590, SSC-DC593), 1/50 to 1/100,000 s (SSC-DC593P, SSC-DC598P))
- Activity detection and alarm trigger functions
- Privacy Zone Masking function
- Two preset memories for camera setting
- RS-485 interface for remote control
- CS-mount
- SSC-DC590 provides single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS- W170A/W270A camera adaptor.
- Variety of power options  
SSC-DC590: DC 12 V operation  
SSC-DC593/DC593P: automatically selects AC 24 V or DC 12 V for proper operation  
SSC-DC598P: AC 220 to 240 V operation



SSC-DC590 Rear Panel



SSC-DC593/DC593P Rear Panel



SSC-DC598P Rear Panel

## Fixed-Type Cameras

SSC-DC374/SSC-DC372P/SSC-DC378P



- 1/3-type Super HAD CCD
- Horizontal resolution - 480 TV lines
- High sensitivity - 0.8 lx (F1.2, 50IRE)
- CCD IRIS function allows for the use of low cost manual iris lenses
- Backlight compensation: ON/OFF switchable
- AGC: TURBO/OFF switchable
- Wide range CCD IRIS (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-DC374), 1/50 to 1/100,000 s (SSC-DC372P, SSC-DC378P))
- Wide range Auto Tracing White balance (ATW)
- Accepts DC auto iris lenses
- CS-mount
- Variety of power options  
SSC-DC374: AC 24 V operation  
SSC-DC372P: DC 12 V operation  
SSC-DC378P: AC 220 to 240 V operation



SSC-DC374 Rear Panel



SSC-DC372P Rear Panel



SSC-DC378P Rear Panel



## Fixed-Type Camera

### SSC-DC198P



- 1/3-type Super HAD CCD
- Horizontal resolution - 330 TV lines
- High sensitivity - 0.6 lx (F1.2, 50IRE)
- Built-in tripod screw holes for easy installation
- Digital Signal Processing (DSP) technology provides powerful picture-contrast control
- Sync system: AC line lock
- Backlight Compensation: ON/OFF switchable
- AGC: TURBO/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/50 to 1/100,000 s)
- CCD IRIS function allows for the use of low cost manual iris lenses
- Wide range Auto Tracing White balance (ATW)
- Accepts video or DC auto iris lenses
- CS-mount



SSC-DC198P Rear Panel

## Fixed-Type Camera

### SSC-DC174/SSC-DC172P



- 1/3-type CCD with Super HAD technology
- Horizontal resolution - 330 TV lines
- High sensitivity - 0.6 lx (F1.2, 50IRE)
- Digital Signal Processing (DSP) technology provides powerful picture-contrast control
- CCD IRIS function allows for the use of low cost manual iris lenses
- Built-in tripod screw holes for easy installation
- Backlight compensation: ON/OFF switchable
- AGC: TURBO/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-DC174), 1/50 to 1/100,000 s (SSC-DC172P))
- Wide range Auto Tracing White balance (ATW)
- Accepts DC auto iris lenses
- CS-mount
- Variety of power options  
SSC-DC174: AC 24 V operation  
SSC-DC172P: DC 12 V operation



SSC-DC174 Rear Panel



SSC-DC172P Rear Panel

## ANALOG CAMERAS

### Fixed-Type Cameras (B/W)

SSC-M383/SSC-M383CE/SSC-M388CE



- 1/3-type CCD with Exwave HAD technology
- Horizontal resolution - 570 TV lines
- High sensitivity - 0.07 lx (F1.2, 50IRE)
- Built-in tripod screw holes for easy installation
- Sync system
  - SSC-M383/M383CE: Internal/AC line lock
  - SSC-M388CE: AC line lock
- Backlight Compensation: ON/OFF switchable (when CCD IRIS is ON)
- AGC: TURBO (up to 24 dB)/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-M383), 1/50 to 1/100,000 (SSC-M383CE, SSC-M388CE))
- CCD IRIS function allows for the use of low cost manual iris lenses
- Accepts video or DC auto iris lenses
- CS-mount
- Variety of power options
  - SSC-M383/383CE: automatically selects AC 24 V or DC 12 V for proper operation
  - SSC-M388CE: AC 220 to 240 V operation



SSC-M383/383CE Rear Panel



SSC-M388CE Rear Panel

### Fixed-Type Cameras (B/W)

SSC-M183/SSC-M183CE/SSC-M188CE



- 1/3-type Super HAD CCD
- Horizontal resolution - 380 TV lines
- High sensitivity - 0.06 lx (F1.2, 50IRE)
- Built-in tripod screw holes for easy installation
- Sync system
  - SSC-M183/M183CE: Internal/AC line lock
  - SSC-M188CE: AC line lock
- Backlight Compensation: ON/OFF switchable (when CCD IRIS is ON)
- AGC: TURBO (up to 24 dB)/OFF switchable
- Wide range of CCD shutter speed (ON/OFF switchable, 1/60 to 1/100,000 s (SSC-M183), 1/50 to 1/100,000 (SSC-M183CE, SSC-M188CE))
- CCD IRIS function allows for the use of low cost iris lenses
- Accepts video or DC auto iris lenses
- CS-mount
- Variety of power options
  - SSC-M183/183CE: automatically selects AC 24 V or DC 12 V for proper operation
  - SSC-M188CE: AC 220 to 240 V operation



SSC-M183/M183CE Rear Panel



SSC-M188CE Rear Panel

### Mini Dome Camera

SSC-CD73V/SSC-CD73VP



- Built-in CS-mount auto iris vari-focal lens covers a wide range of viewing angles (f=3.0 to 8.0 mm)
- 1/4-type Super HAD CCD
- High sensitivity - Color: 0.9 lx, B/W: 0.2 lx (F1.0, 50IRE, AGC ON)
- Rugged design - IP66 rated
- BNC type analog composite video output
- Designed for easy mounting and installation
- AC Line Lock capability for AC operation
- Backlight Compensation: ON/OFF switchable
- AGC: TURBO (up to 24 dB)/OFF switchable
- Wide range Auto Tracing White balance (ATW)
- CS-mount
- Dual power capability - automatically selects AC 24 V or DC 12 V for proper operation

### Mini Dome Camera

SSC-CD43V/SSC-CD43VP



- Built-in CS-mount auto iris vari-focal lens covers a wide range of viewing angles (f=3.0 to 8.0 mm)
- 1/4-type Super HAD CCD
- High sensitivity - 0.8 lx (F1.0, 50IRE, AGC ON)
- BNC type analog composite video output
- Designed for easy mounting and installation
- AC Line Lock capability for AC operation
- Backlight Compensation: ON/OFF switchable
- AGC: TURBO (up to 24 dB)/OFF switchable
- Wide range Auto Tracing White balance (ATW)
- CS-mount
- Dual power capability - automatically selects AC 24 V or DC 12 V for proper Operation

## CAMERA ADAPTORS

### YS-W270A/YS-W270P



- Camera adaptor for Color video camera. (YS-W270A is for the SSC-DC590/DC80 and YS-W270P is for the SSC-DC80P)
- Provides DC power and video/sync signal between the adaptor and multiple cameras over a single coaxial cable
- Up to four cameras can be connected
- Internal or external synchronization with MPX-VS or MPX-VD
- Maximum cable length: 600 m with RG-11A/U (7C-2V) coaxial cable



YS-W270AW270P Rear Panel

### YS-W170A/YS-W170P



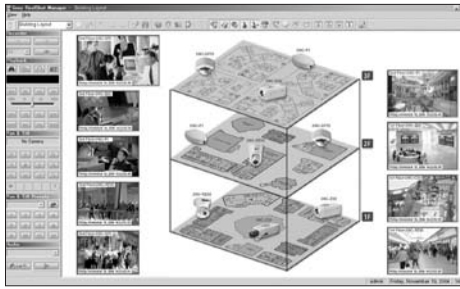
- Camera adaptor for Color video camera. (YS-W170A is for the SSC-DC590/DC80 and YS-W170P is for the SSC-DC80P)
- Provides DC power and video/sync signal between a single adaptor and the camera over a coaxial cable
- Internal or external synchronization with MPX-VS or MPX-VD
- Maximum cable length: 600 m with RG-11A/U (7C-2V) coaxial cable



YS-W170AW170P Rear Panel

# INTELLIGENT MONITORING SOFTWARE

## IMZ-RS300 Series (IMZ-RS301/RS304/RS309/RS316/RS332/RS300C)



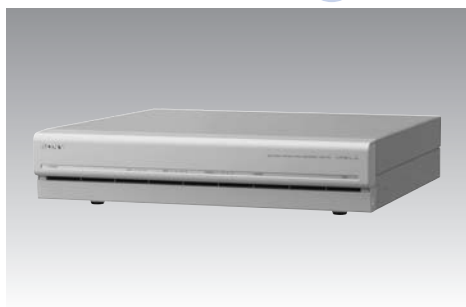
- Remote control, monitoring, and recording of up to 32 video cameras
  - IMZ-RS301: Control PC software/license for 1 network video source
  - IMZ-RS304: Control PC software/license for 4 network video sources
  - IMZ-RS309: Control PC software/license for 9 network video sources
  - IMZ-RS316: Control PC software/license for 16 network video sources
  - IMZ-RS332: Control PC software/license for 32 network video sources
- Intelligent Motion Detection function
- Supports MPEG-4 network cameras
- Capable of recording, monitoring, and playing back G.711/G.726 audio
- "Layout Editor" for creating customized site layouts
- Monitoring from a Web browser<sup>\*22</sup>
- Definable "Action Areas" allows monitoring of specific cameras or areas
- Automatic layout "Tour" function
- "Hot Spot" monitoring and dual monitor support
- Supports a high frame rate of 30 fps at 640 x 480 pixels from network cameras<sup>\*23</sup>
- Manual/Scheduled/Alarm/Pre-alarm recording capabilities
- Supports playback during recording
- Quick and easy search of recorded images by thumbnail using time codes, alarm events, and/or comments as the search key
- Activity and/or motion detection to trigger an alarm
- E-mail notification when an alarm is triggered
- Dynamic Masking function to mask unwanted or prohibited areas of an image
- Camera Pan/Tilt/Zoom control capability
- Camera preset positions can be assigned and these positions can be "toured"
- API (Application Programming Interface) for developers and integrators to customize systems
- AVI file export
- Compatible with disk and/or tape archive systems
- Time stamped comments for easy search of material
- User/Group privileges to limit access to specific functions
- Customized logging reports for troubleshooting

<sup>\*22</sup> Requires Web gateway software

<sup>\*23</sup> In order to achieve the maximum frame rate, a client PC with adequate processing power and an adequate network environment are required.

# NETWORK RECORDERS

NSR-100/NSR-50/NSR-25 **NEW**



**IPELA**

JPEG

MPEG-4

- High quality image recording and playback - supports a high frame rate
- MPEG-4/JPEG support
- Large capacity HDDs: 1000 GB, RAID 5, RAID 1, or RAID 0 (NSR-100), 500 GB, SPAN or RAID 1 (NSR-50), 250 GB (NSR-25)<sup>\*24</sup>
- Intelligent setup feature - provides simple and easy setting of recorders and cameras, including automatic IP address assignment.
- Flexible and easy-to-use GUI operation
- Ergonomically designed remote control unit (Optional RM-NS10 Remote Control Unit)
- Flexible recording and playback functions; Manual recording, Scheduled recording, Alarm and Pre-Alarm recording, Playback during recording
- Quick and flexible search functions; Quick search, Recording list search, Advanced search
- Analog camera support<sup>\*25</sup>
- Camera pan/tilt/zoom control
- Intelligent Motion Detection
- Remote operation with a PC running the supplied RSM controller software
- Audio recording, monitoring, and playback function<sup>\*26</sup>
- Privacy masking function
- Compatible with external Network Attached Storage (NAS) systems
- Network Security feature - User privileges
- File export to CD-R/DVD-R/Compact Flash card
- Hot-swap capability (NSR-100 only)<sup>\*27</sup>
- Uninterruptible Power Supply (UPS) support

<sup>\*24</sup> Recording capacity can be expanded up to 500 GB using an optional NSBK-250 HDD Expansion Unit.

<sup>\*25</sup> An optional SNT-V704 Video Network Station is required.

<sup>\*26</sup> When using Sony network cameras configured with a microphone.

<sup>\*27</sup> HDDs can be hot swapped when the unit is set to RAID 5 or RAID 1.



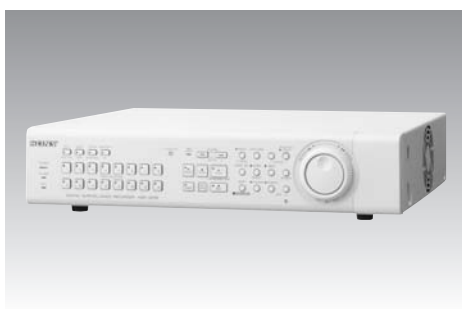
NSR-100/NSR-50 Rear Panel



NSR-25 Rear Panel

# DIGITAL HARD DISK RECORDERS

HSR-J2009/HSR-J2009P/HSR-J2016/HSR-J2016P **NEW**



JPEG2000

- 6-channel (HSR-J2009)/16-channel (HSR-J2016) digital hard disk recorders with built-in multiplexer
- JPEG 2000 compression format provides high compression ratio while maintaining clear images with minimal block noise
- Region of Interest (ROI) function allows users to record specified areas of interest in an image with better quality than the rest of the image.
- Large capacity 500 GB HDD (250 GB x 2, ATA/ATAPI-5 standard)
- High-resolution (720 x 240) NTSC/(720 x 288) PAL in field recording mode and high picture quality recording and playback
- Network capability (built-in 100Base-TX Ethernet interface)
- Real-time live video monitoring from all cameras, each at a frame rate of 30 fps (NTSC)/25 fps (PAL)
- External RAID unit connectivity
- Alarm recording, timer recording, programmed recording, and activity detection function
- Playback during recording
- Two-channel audio recording and playback
- Two data storage areas on HDD (recording area and archive area)
- Camera PTZ control function<sup>\*28</sup>
- Built-in Compact Flash card slot to copy images on removable media, such as a CF card or Memory Stick using a CF card adapter

<sup>\*28</sup> For a list of compatible cameras, please contact your nearest Sony office or authorized Sony dealer.



HSR-J2009/HSR-J2009P Rear Panel



HSR-J2016/HSR-J2016P Rear Panel

# DIGITAL HARD DISK RECORDERS

## HSR-X206/HSR-206P



### Motion-JPEG

- 6-channel digital hard disk recorder with built-in multiplexer
- Large capacity 320 GB HDD (160 GB x 2, ATA/ATAPI-5 standard)
- Long recording time of 2686 hours (112 days) when in high mode (1-channel input, 1 picture/s)
- High-resolution (720 x 240) NTSC/(720 x 288) PAL in field recording mode and high picture quality recording and playback
- Motion-JPEG compression
- Network capability (built-in 100Base-TX Ethernet interface)
- Real-time live video monitoring from all six cameras, each at a frame rate of 30 fps<sup>\*29</sup>
- Playback during recording
- Alarm recording, timer recording, programmed recording, and activity detection function
- Audio single-channel recording and playback
- Intelligent search function allows five types of searches
- Three data storage areas on HDD (normal recording, alarm recording, and archive area)
- Built-in Compact Flash (CF) card slot to copy images on removable media, such as a CF card or Memory Stick Duo™ using a CF card adapter
- Auto delete function
- 2x digital zoom
- Video loss alarm
- Two security lock levels (User/Administer levels)
- HDD mirroring function
- 30-day backup on settings if power fails

<sup>\*29</sup> The HSR-X206P displays these images at 25 fps



HSR-X206 Rear Panel



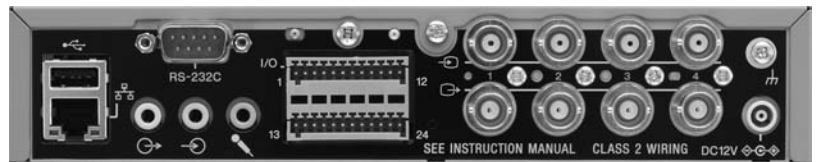
# VIDEO NETWORK STATIONS

## SNT-V704



IPELA

- Analog camera monitoring / control via network
- Supports up to four analog cameras
- MPEG-4/JPEG compression formats, selectable
- High-frame rate of up to 30 fps (NTSC) /25 fps (PAL) at 720 x 480 sized images
- Selectable frame integration mode - provides clear and smooth images
- External microphone input and speaker output for audio monitoring
- USB 2.0 port for external data storage
- Equipped with four sensor in and four alarm outputs
- Built-in activity detection
- Pre-/Post-Alarm image storage
- Image transfer using FTP
- RS-232C/485/422 interface for camera control including Pan/Tilt/Zoom control
- Network security features - IP filtering/Password protection
- Dynamic Masking function
- "Tour" feature with five scanning patterns and up to 16 positions in each scan
- "Area setting" feature allows the administrator to crop an area within an image
- 100Base-TX/10Base-T Ethernet



SNT-V704 Rear Panel

# MONITORS

## LMD-1410SC NEW



- 14-inch<sup>\*31</sup> LCD monitor
- Panel Resolution: 640 x 480 (VGA)
- Accepts NTSC and PAL signals
- Accepts Composite, Y/C, Component, and RGB signals
- -3% underscan and +5% overscan
- Switchable aspect ratio (4:3 and 16:9)
- On-screen menu for adjustment/operation
- Parallel Remote Control
- Color Temperature Adjustment
- VESA mounting with 100 mm spacings
- 19-inch EIA standard rack mountable
- Monitor stand supplied
- Built-in speaker for audio monitoring
- AC 100 to 240 V, 50/60Hz

<sup>\*31</sup> 13.94-inch viewable area measured diagonally



LMD-1410SC Rear Panel

## LMD-2010SC NEW



- 20-inch<sup>\*32</sup> LCD monitor
- Panel Resolution: 640 x 480 (VGA)
- Accepts NTSC and PAL signals
- Accepts Composite, Y/C, Component, and RGB signals
- -3% underscan and +5% overscan
- Switchable aspect ratio (4:3 and 16:9)
- On-screen menu for adjustment/operation
- Parallel Remote Control
- Color Temperature Adjustment
- VESA mounting with 100 mm spacings
- 19-inch EIA standard rack mountable
- Monitor stand supplied
- Built-in speaker for audio monitoring
- AC 100 to 240 V, 50/60Hz

<sup>\*32</sup> 20.1-inch viewable area measured diagonally



LMD-2010SC Rear Panel

# SPECIFICATIONS

## NETWORK CAMERAS

### PTZ Cameras

	SNC-RX550N/B	SNC-RX550P/B	SNC-RX550N/W	SNC-RX550P/W	SNC-RZ50N	SNC-RZ50P
Camera						
Image device	1/4-type Exwave HAD CCD					
Number of total pixels	—				630,000	740,000
Number of effective pixels	380,000 (768 x 494)	440,000 (752 x 582)	380,000 (768 x 494)	440,000 (752 x 582)	340,000 (711 x 485)	400,000 (702 x 575)
Electronic shutter	1 to 1/10,000 s					
Gain control	Auto/Manual (-3 dB to +28 dB)					
Exposure control	Auto/Shutter-priority/Iris-priority/Manual/EV compensation/Backlight compensation					
White balance mode	Auto/Indoor/Outdoor/One-push auto/ATW/Manual					
Lens type	Auto-focus zoom lens					
Zoom ratio	26x optical zoom (312x with digital zoom) *Vignetting may occur at wide viewing angles under low light conditions (SNC-RX550 Series only).					
Horizontal viewing angle	2.2 to 54.2 degrees				1.7 to 42.0 degrees	
Focal length	f=3.5 to 91.0 mm					
F-number	F1.6 (wide), F3.8 (tele)					
Minimum object distance	320 mm (wide), 1,500 mm (tele)					
Pan angle	360 degrees endless rotation				-170 to +170 degrees	
Pan speed	300 degrees/s (max.)					
Tilt angle	-90 to 0 degrees				-90 to +25 degrees	
Tilt speed	300 degrees/s (max.)					
Other functions	Day/Night, Intelligent Motion Detection, Intelligent Object Detection, Anti-tampering, Spherical Privacy Zone Masking, Image stabilizer, Position presets					
Image						
Image size (H x V)	640 x 480, 320 x 240, 160 x 120 (JPEG, MPEG-4, H.264)					
Compression format	JPEG, MPEG-4, H.264					
Maximum frame rate						
JPEG/MPEG-4	30 fps (640 x 480)	25 fps (640 x 480)	30 fps (640 x 480)	25 fps (640 x 480)	30 fps (640 x 480)	25 fps (640 x 480)
H.264	10 fps (640 x 480)	8 fps (640 x 480)	10 fps (640 x 480)	8 fps (640 x 480)	10 fps (640 x 480)	8 fps (640 x 480)
Audio						
Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)					
Network						
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP					
Number of clients	20					
Interface						
Ethernet	10Base-T/100Base-TX (RJ-45)					
Serial interface	RS-232C (Transparency function or VISCA protocol)					
Card slots	PC card x1, Memory Stick x1					
Analog video output	BNC x1, 1.0 Vp-p, 75 Ω					
I/O port	Sensor in x 2, Alarm out x 2					
External microphone input	Mini-jack (monaural, 2.2 KΩ 2.5 V plug-in power)					
Audio line output	Mini-jack (monaural), max output level: 1 Vrms					
Analog video output						
Signal system	NTSC (Composite)	PAL (Composite)	NTSC (Composite)	PAL (Composite)	NTSC (Composite)	PAL (Composite)
Horizontal resolution	470 TV lines	460 TV lines	470 TV lines	460 TV lines	450 TV lines	
S/N ratio	more than 50 dB				more than 50 dB	
Min. illumination	Color: 1 lx (50IRE, F1.6, AGC ON), B/W: 0.15 lx (50IRE, F1.6, AGC ON)				Color: 2.2 lx (50IRE, F1.6, AGC ON), B/W: 0.3 lx (50IRE, F1.6, AGC ON)	
General						
Mass	approx. 2.2 kg (4 lb 13 oz)				approx. 1.2 kg (2 lb 10 oz)	
Dimensions (W x H x D)	160 x 160 x 230 mm (6 3/8 x 6 3/8 x 9 1/8 inches)				140 x 166 x 142 mm (5 5/8 x 6 5/8 x 5 5/8 inches)	
Body color	Black		White			
Power requirements	AC 24 V/DC 12 V				DC 12 V	
Power consumption	25 W max.				20 W max.	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)				0 °C to 40 °C (32 °F to 104 °F)	
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)					
Supplied accessories						
	Ceiling-mount bracket (A), Ceiling-mount bracket (B), Screws x6, Wire rope, CD-ROM (setup software user's guide), Installation manual				Ceiling-mount bracket(A), Ceiling-mount bracket(B), Screws x6, Wire rope, AC Adaptor, AC Cable, CD-ROM (setup software, user's guide), Installation manual, Mount bracket cover, Shoulder screw, Plug retainer, Rubber feet x4	
System requirements						
Operating system	Microsoft® Windows® 2000/XP					
Processor	CPU: Intel® Pentium® IV 1.5 GHz or higher					
Memory	RAM: 256 MB or more					
Web browser	Microsoft Internet Explorer® Ver. 6.0					

# SPECIFICATIONS

## NETWORK CAMERAS

### PTZ Cameras

SNC-RZ30N/2		SNC-RZ30P/2
Camera		
Image device	1/6-type Super HAD CCD	
Number of effective pixels (H x V)	630,000 (962 x 654)	740,000 (962 x 774)
Electronic shutter	Auto/Manual	
Gain control	Auto/Manual	
Exposure control	Auto/Shutter-priority/Iris-priority/Manual/Backlight compensation	
White balance mode	Auto/Indoor/Outdoor/One push auto/ATW/Manual	
Lens type	Auto-focus zoom lens	
Zoom ratio	25x Optical (12x Digital)	
Horizontal viewing angle	45 to 2.0 degrees	
Focal length	f=2.4 to 60 mm	
F number	F1.6 (Wide), F2.7 (Tele)	
Pan angle	-170 to +170 degrees	
Tilt angle	-90 to +25 degrees	
Other functions	Day/Night, Image Flip, Activity Detection, Image stabilizer	
Image		
Image size	36 x 480, 640 x 480, 320 x 240, 160 x 120	736 x 544, 640 x 480, 320 x 240, 160 x 120
Compression format	JPEG	
Maximum frame rate	30 fps (640 x 480)	25 fps (640 x 480)
Network		
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP(MIB2)	
Number of clients	50	
Interface		
Ethernet	100Base-TX/10Base-T (RJ-45)	
Serial interface	RS-485/RS-232C	
Card slot	PC card Type II x 2	
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω unbalanced, sync negative	
I/O port	Sensor in x 3, Alarm out x 2	
Analog video output		
Signal system	NTSC	PAL
Horizontal resolution	480 TV lines	
S/N ratio	more than 48 dB	
Minimum illumination	Color: 2.5 lx (AGC ON, F1.6, 50IRE), B/W:0.1 lx (AGC ON, F1.6, 50IRE)	
General		
Mass	approx. 1,200 g (2 lb 10 oz)	
Dimensions (W x H x D)	140 x 175 x 144 mm (5 5/8 x 7 x 5 3/4 inches) without projection	
Power requirements	DC 12 V	
Power consumption	21.6 W max.	
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-20 to 60°C (-4 to 140°F)	
Supplied accessories		
	AC power adaptor, AC power cord, Ceiling bracket (A), Ceiling bracket (B), Wire rope, Fixing screws (+PSW 3x6), Shoulder screw M4, I/O receptacle, Rubber foot, Clamp filter, CD-ROM (User's guide, setup program), Installation manual	
System requirements		
Operating system	Windows 98/98SE/Me/NT4.0/2000/XP	
Processor	CPU: Pentium III 500 MHz or higher (Pentium 4, 1GHz or higher recommended)	
Memory	RAM: 128 MB or more	
Web browser	Microsoft Internet Explorer® Ver.5.5 or 6.0	

## PTZ Cameras

SNC-RZ25N		SNC-RZ25P		SNC-P5	
Camera					
Image device	1/4-type CCD with EXwave HAD Technology		1/4 type progressive scan CCD		
Number of effective pixels (H x V)	380,000 (768 x 494)		440,000 (752 x 582)		330,000 (659 x 494)
Electronic shutter	Auto/Manual				
Gain control	Auto/Manual				
Exposure control	Auto/Shutter-priority/Iris-priority/Manual/Backlight compensation				Auto/Shutter priority/ Manual
White balance mode	Auto/Indoor/Outdoor/One push auto/ATW/Manual				ATW/Indoor/Outdoor/One push auto/Manual
Lens type	Auto-focus zoom lens				Pan focus zoom lens
Zoom ratio	18x Optical (12x Digital)				3x optical
Horizontal viewing angle	48 to 2.7 degrees				55.8 to 20 degrees
Focal length	f=4.1 to 73.8 mm				F2.8 (Wide), F3.9 (Tele)
F number	F1.4 (Wide), F3.0 (Tele)				f3.4 to 10.2 mm
Pan angle	-170 to +170 degrees				-60 to +60 degrees
Tilt angle	-90 to +30 degrees				-65 to +10 degrees
Other functions	Day/Night , Image Flip, Motion Detection				Motion Detection
Image					
Image size					
JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120				
MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120				
Compression format	JPEG/MPEG-4 (Selectable)				
Maximum frame rate					
JPEG	30 fps (320 x 240)		25 fps (320 x 240)		30 fps (320 x 240)
MPEG-4	30 fps (320 x 240)		25 fps (320 x 240)		30 fps (320 x 240)
Audio					
Compression format	G.726 (40, 32, 24,16 kbps), G.711 (64 kbps)				G.711(64KBps)/G.726 (40,32,24,16KBps)
Built-in microphone					Electret condenser microphone (omni-directional)
Network					
Protocols	TCP/IP, UDP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP(MIB2), RTP/RTCP, PPPoE				
Number of clients	JPEG: 20, MPEG-4: 10				
Interface					
Ethernet	100Base-TX/10Base-T (RJ-45)				
Serial interface	RS-232C				—
Card slot	Compact Flash type x 1				
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω unbalanced, sync negative				Mini Jack, 1.0 Vp-p, 75 Ω, Sync negative
I/O port	Sensor input x 2, Alarm output x 2				Sensor input x 2, Alarm output x 1
External microphone input	Mini-jack (monaural), 4.7 kΩ, 2.5 V plug-in power				Mini-jack(monaural), 2.2 kΩ, 2.5V plug-in power
Audio line output	Mini-jack (monaural), max output level: 1Vrms				
Analog video output					
Signal system	NTSC		PAL		NTSC/PAL
Horizontal resolution	480 TV lines				400 TV lines
S/N ratio	more than 50 dB				more than 48 dB
Minimum illumination	Color: 0.7 lx (AGC ON,F1.4, 50IRE) B/W: 0.06 lx (AGC ON, F1.4, 50IRE)				3.5 lx (AGC ON, F2.8, 30IRE)
General					
Mass	approx. 1,300 g (2 lb 14 oz)				Camera: approx. 380 g (13 oz), Stand: approx. 360 g (13 oz)
Dimensions (W x H x D)	140 x 200 x 148 mm ( 5 5/8 x 7 7/8 x 5 7/8 inches) without projections				Camera: 130 x 130 x 110 mm (5 1/8 x 5 1/8 x 4 3/8 inches) without projections Stand: 130 x 178 x 142 mm (5 1/8 x 7 1/8 x 5 5/8 inches)
Power requirements	AC 24 V (50/60Hz), DC 12 V				DC12 V
Power consumption	18 W max				6.2 W max
Operating temperature	0 to 40°C (32 to 104°F)				0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)				-20 to +60°C (-4 to +140°F)
Supplied accessories					
	Ceiling Bracket (A), Ceiling Bracket (B), Wire rope, Tapping screw (M3x6), CD-ROM (User's guide, supplied programs), Installation manual				AC power adaptor, AC Power cord, Stand, Wall-mount bracket, Rubber feet, Drop-prevention strap, Tapping screws, CD-ROM (user's guide, supplied programs), Installation manual
System requirements					
Operating system	Windows 2000/XP				
Processor	CPU: Pentium III 1 GHz or higher (Pentium IV, 2 GHz or higher recommended)				
Memory	RAM: 256 MB or more				
Web browser	Microsoft Internet Explorer® Ver.5.5 or 6.0				

# SPECIFICATIONS

## NETWORK CAMERAS

### Fixed-Type Cameras

SNC-CS50N		SNC-CS50P
Image device	1/3-type SuperExwave CCD	
Number of effective pixels	380,000 pixels	440,000 pixels
Electronic shutter	1/60 to 1/10,000 s	1/50 to 1/10,000 s
Gain control	Auto/Manual (0 dB to +24 dB)	
Exposure control	Auto, Manual, EV compensation, Backlight compensation	
White balance mode	ATW/ATW pro/One-push auto	
Lens type	Vari-focal zoom lens	
Zoom ratio	—	
Horizontal viewing angle	94 ° to 35 °	
Focal length	f=2.9 to 8.0 mm	
F-number	F0.95 to F1.6	
Minimum object distance	300 mm	
Other functions	Day/Night, Intelligent Motion Detection,Intelligent Object Detection, Anti-tampering, Image stabilizer	
Image		
Image size (H x V)	640 x 480, 320 x 240, 160 x 120	
Compression format	JPEG, MPEG-4, H.264	
Maximum frame rate		
JPEG/MPEG-4	30 fps (640 x 480)	25 fps (640 x 480)
H.264	10 fps (640 x 480)	8 fps (640 x 480)
Compression ratio	approx. 1/5 to 1/60 (10 steps)	
Audio		
Audio compression	G.711/G.726 (40, 32, 24, 16 kbps)	
Network		
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, DNS, NTP, SNMP (MIB-2), and RTP/RTCP	
Number of clients	20	
Interface		
Ethernet	10Base-T/100Base-TX (RJ-45)	
Serial interface	RS-232C (Transparency function)	
PC card slot	PC card x1 (Type II)	
Analog video output	BNC x1, 1.0 Vp-p, 75 Ω	
I/O ports	Sensor in x2, Alarm out x2	
External microphone input	Mini-jack (monaural, 2.2 kΩ 2.5 V plug-in power)	
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms	
Analog video output		
Signal system	NTSC (Composite)	PAL (Composite)
Horizontal resolution	540 TV lines	
S/N ratio	more than 50 dB	
Min. illumination	Color: 0.4 lx (F 0.95, 50 IRE, AGC ON) B/W: 0.04 lx (F 0.95, 50 IRE, AGC ON)	
General		
Mass	approx. 750 g (1 lb 10 oz) excl. cover equipment, approx. 880g (1 lb 15 oz) incl. cover equipment	
Dimensions (W x H x D)	84 x 69 x 196 mm (3 3/8 x 2 3/4 x 7 3/4 inches) excl. cover equipment, 84 x 69 x 265 mm (3 3/8 x 2 3/4 x 10 1/2 inches) incl. cover equipment	
Power requirements	AC 24 V, DC 12 V, PoE	
Power consumption	9 W max. (AC 24V)	
Operating temperature	0 to 50 °C (32 °F to 122 °F)	
Storage temperature	-40 to 60 °C (-40 °F to 140 °F)	
Supplied accessories		
	Wire rope, Shoulder screw M4, Cable cover, Front cover, Lens cable cover, Screw for front cover, CD-ROM (setup program, user's guide)	
System requirements		
Operating system	Microsoft® Windows® 2000/XP	
Processor	CPU: Intel® Pentium® III 1 GHz or higher	
Memory	RAM: 256 MB or more	
Web browser	Microsoft Internet Explorer® Ver.6.0 or later	

\* The SNC-CS10 does not support for PPPoE.

## Fixed-Type Cameras

SNC-Z20N		SNC-Z20P
Camera		
Image device	1/4-type CCD with Exwave HAD technology	
Number of effective pixels (H x V)	380,000 (768 x 494)	440,000 (752 x 582)
Electronic shutter	Auto/Manual	
Gain control	Auto/Manual	
Exposure control	Auto/Shutter-priority/Iris-priority/Manual/Backlight compensation	
White balance mode	Auto/ATW/Indoor/Outdoor/One push/Manual	
Lens type	Auto-focus zoom lens	
Zoom ratio	18x Optical (12x Digital)	
Horizontal viewing angle	48 to 2.7 degrees	
Focal length	f=4.1 to 73.8 mm	
F number	F1.4 (Wide), F3.0 (Tele)	
Other functions	Day/Night, Image Flip, Activity Detection	
Image		
Image size		
JPEG	736 x 480, 640 x 480, 320 x 240, 160 x 120	736 x 544, 640 x 480, 320 x 240, 160 x 120
Compression format	JPEG	
Maximum frame rate		
JPEG	30 fps (640 x 480)	25 fps (640 x 480)
Network		
Protocols	TCP/IP, ARP, ICMP, DHCP, NTP, DNS, HTTP, FTP, SMTP, SNMP (MIB2)	
Number of clients	50	
Interface		
Ethernet	100Base-TX/10Base-T (RJ-45)	
Serial interface	RS-232C	
Card slot	PC card Type II x 1	
Analog video output	BNC x 1, 1.0 Vp-p, 75 $\Omega$ , unbalanced, sync negative	
I/O port	Sensor in x 1, Alarm out x 2	
Analog video output		
Signal system	NTSC	PAL
Horizontal resolution	480 TV lines	460 TV lines
S/N ratio	more than 50 dB (AGC OFF, Weight ON)	
Minimum illumination	Color: 0.7 lx (AGC ON, F1.4, 50IRE), B/W: 0.06 lx (AGC ON, F1.4, 50IRE)	
General		
Mass	approx. 800 g ( 1 lb 12 oz)	
Dimensions (W x H x D)	80 x 77 x 177 mm (3 1/4 x 3 1/8 x 7 inches)	
Power requirements	AC 24 V (50/60 Hz), DC 12 V, Power Over Ethernet	
Power consumption	9 W max	
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-20 to 60°C (-4 to 140°F)	
Supplied accessories		
	CD-ROM (setup program, user's guide), Wire rope, Shoulder screw M4, Installation manual	
System requirements		
Operating system	Microsoft Windows 98/98SE/ME/NT4.0/2000XP	
Processor	CPU: Pentium III, 500 MHz or higher (Intel Pentium 4, 1 GHz or higher recommended)	
Memory	RAM: 128 MB or more	
Web browser	Microsoft Internet Explorer version 5.5 or 6.0	

# SPECIFICATIONS

## NETWORK CAMERAS

### Fixed-Type Cameras

	SNC-CS3N	SNC-CS3P	SNC-P1
<b>Camera</b>			
Image device	1/3-type CCD with Exwave HAD technology	1/4 type progressive scan CCD	
Number of effective pixels (H x V)	380,000 (768 x 494)	440,000 (752 x 582)	330,000 (659 x 494)
Electronic shutter	Auto/Manual		
Gain control	Auto/Manual		
Exposure control	—		Auto/Shutter priority/ Manual
White balance mode	ATW		ATW/Indoor/Outdoor/One push auto/Manual
Lens type	Vari-focal auto iris lens		Fixed focal lens
Zoom ratio	2.7x Optical		—
Horizontal viewing angle	91 to 36 degrees		53.4 degrees
Focal length	f=3.0 to 8.0 mm		f=3.8 mm
F number	F1.0 (Wide), F1.4 (Tele)		F2.0
Other functions	Activity Detection		Motion Detection
<b>Image</b>			
Image size			
JPEG	736 x 480, 640 x 480, 320 x 240, 160 x 120	736 x 544, 640 x 480, 320 x 240, 160 x 120	640 x 480, 320 x 240, 160 x 120
MPEG-4	—		640 x 480, 320 x 240, 160 x 120
Compression format	JPEG		MPEG-4, JPEG
Maximum frame rate			
JPEG	30 fps (640 x 480)	25 fps (640 x 480)	30 fps (320 x 240)
MPEG-4	—		30 fps (320 x 240)
<b>Audio</b>			
Compression format	—		G.711(64KBps)/G.726 (40,32,24,16KBps)
Built-in microphone	—		Electret condenser microphone (omni-directional)
<b>Network</b>			
Protocols	TCP/IP, ARP, ICMP, DHCP, NTP, DNS, HTTP, FTP, SMTP, SNMP (MIB2)		TCP/IP, UDP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP(MIB2), RTP/RTCP, PPPoE
Number of clients	50		JPEG: 20, MPEG-4: 10
<b>Interface</b>			
Ethernet	100Base-TX/10Base-T (RJ-45)		
Serial interface	RS-232C		—
Card slot	PC card Type II x 1		—
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, unbalanced, sync negative, Mini Jack, 1.0 Vp-p, 75 Ω, Sync negative		Mini Jack, 1.0 Vp-p, 75 Ω, Sync negative
I/O port	Sensor in x 1, Alarm out x 2		Sensor input x 1, Alarm output x 1
External microphone input	—		Mini-jack (monaural), 2.2 kΩ, 2.5 V plug-in power
Audio line output	—		Mini-jack (monaural), max output level: 1 Vrms
<b>Analog video output</b>			
Signal system	NTSC	PAL	NTSC/PAL
Horizontal resolution	480 TV lines		400 TV lines
S/N ratio	more than 50 dB (AGC OFF, Weight ON)		more than 48 dB
Minimum illumination	0.5 lx (AGC ON, F1.0, 50IRE)		1.2 lx (AGC ON, F2.0, 30IRE)
<b>General</b>			
Mass	approx. 650 g ( 1 lb 7 oz)		Camera: approx. 225 g (8 oz), Stand: approx. 180 g (6 oz)
Dimensions (W x H x D)	70 x 57 x 199 mm (2 7/8 x 2 1/4 x 7 7/8 inches)		Camera: 100 x 36 x 139 mm (4 x 1 7/16 x 5 1/2 inches) without projection Stand: 120 x 142 x 150mm (4 3/4 x 5 5/8 x 6 inches)
Power requirements	AC 24 V (50/60Hz), DC 12 V		DC12 V
Power consumption	8 W		3.5 W
Operating temperature	-10 to 50°C (14 to 122°F)		0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)		-20 to +60°C (-4 to +140°F)
<b>Supplied accessories</b>			
	CD-ROM (setup program, user's guide), Wire rope, Shoulder screw M4, Installation manual		AC power adaptor, AC power cord, Stand, Wall-mount bracket, Rubber foot, Drop-prevention strap, Tapping screws, CD-ROM (user's guide, supplied programs), Installation manual
<b>System requirements</b>			
Operating system	Microsoft Windows 98/98SE/ME/NT4.0/2000XP		Windows 2000/XP
Processor	CPU: Pentium III, 500 MHz or higher (Intel Pentium 4, 1 GHz or higher recommended)		CPU: Pentium III 1 GHz or higher (Pentium IV, 2GHz or higher recommended)
Memory	RAM: 128 MB or more		RAM : 256 MB or more
Web browser	Microsoft Internet Explorer version 5.5 or 6.0		



## Mini Dome Cameras

	SNC-DF70N	SNC-DF70P	SNC-DF40N	SNC-DF40P
Camera				
Image device	1/4-type Super HAD CCD			
Number of effective pixels (H x V)	380,000 (768 x 494)	440,000 (752 X 582)	380,000 (768 x 494)	440,000 (752 X 582)
Gain control	Auto/Manual			
Exposure control	Auto/Manual, Backlight compensation			
White balance mode	ATW			
Lens type	CS-mount 2.7x Vari-focal auto iris lens			
Horizontal viewing angle	26.9 to 66.6 degrees			
Focal length	f=3.0 to 8.0 mm			
F number	F1.0 (Wide), F1.45 (Tele)		F1.0 (Wide), F1.4 (Tele)	
Other functions	Day/Night, Motion Detection		Motion Detection	
Image				
Image size				
JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120			
MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120			
Compression format	MPEG-4/JPEG (Selectable)			
Maximum frame rate				
JPEG	30 fps (320 x 240)	25 fps (320 x 240)	30 fps (320 x 240)	25 fps (320 x 240)
MPEG-4	30 fps (320 x 240)	25 fps (320 x 240)	30 fps (320 x 240)	25 fps (320 x 240)
Audio				
Compression format	G.711 (64 Kbps) G.726 (40, 32, 24, 16 Kbps)			
Network				
Protocols	TCP/IP, UDP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP (MIB2), RTP/RTCP, PPPoE			
Number of clients	JPEG: 20, MPEG-4: 10			
Interface				
Ethernet	100Base-TX/10Base-T (RJ-45)			
Analog video output	BNC, 1.0 Vp-p, 75 Ω, unbalanced, sync negative			
I/O port	Sensor input x 1, Alarm output x 2			
External microphone input	Mini-jack (monaural), 4.7 kΩ, 2.5 V plug-in power			
Audio line output	Mini-jack (monaural), max output level: 1 Vrms			
Analog video output				
Signal system	NTSC	PAL	NTSC	PAL
Horizontal resolution	480 TV lines			
S/N ratio	more than 50 dB			
Minimum illumination	Color: 0.9 lx (AGC ON, F1.0, 50IRE), B/W: 0.2 lx (AGC ON, F1.0, 50IRE)		Color: 0.8 lx (F1.0, 50IRE, AGC ON)	
General				
Mass	approx. 1,500 g (3 lb 5 oz)		approx. 750 g (1 lb 10 oz)	
Dimensions (W x H x D)	165 x 135 x 166 mm (6 1/2 x 5 3/8 x 6 5/8 inches) without projection		124 x 132 x 126 mm (5 x 5 1/4 x 5 inches) without projection	
Power requirements	AC 24 V (50/60 Hz), DC 12 V, Power over Ethernet			
Power consumption	8.0 W		7.5 W	
Operating temperature	-10 to +50°C (14 to 122°F)			
Storage temperature	-20 to +60°C (-4 to +140°F)			
Supplied accessories				
	Monitor cable, Wire rope, Screws, Dome cover screw, CD-ROM (User's guide, supplied programs), Installation manual		Monitor cable, Screws, Wrench, I/O extension cable, Wire rope, CD-ROM (User's guide, supplied programs), Installation manual	
System requirements				
Operating system	Microsoft Windows 2000/XP			
Processor	CPU: Pentium III, 1 GHz or higher (Pentium IV, 2 GHz or higher recommended)			
Memory	RAM: 256 MB or more			
Web browser	Microsoft Internet Explorer version 5.5 or 6.0			

# SPECIFICATIONS

## ANALOG CAMERAS

### Fixed-Type Cameras

	SSC-E473	SSC-E473P	SSC-E478P	SSC-E453	SSC-E453P	SSC-E458P
Camera						
Image device	1/3-type CCD with SuperExwave technology			1/3-type CCD with SuperExwave technology		
Number of effective pixels (H x V)	370,000 (768 x 494)	430,000 (752 x 582)		370,000 (768 x 494)	430,000 (752 x 582)	
Auto Gain Control	TURBO/OFF switchable					
White balance mode	ATW pro/ATW					
Lens type	CS-mount, DC servo auto iris					
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s		ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation	ON/OFF switchable					
Day/Night function	Auto/External			—		
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative					
Signal system	NTSC	PAL		NTSC	PAL	
Sync system	Internal/AC Line lock		AC Line lock	Internal/AC Line lock		AC Line lock
Horizontal Resolution	540 TV lines					
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)					
Minimum illumination	Color: 0.55 lx (50IRE, F1.2, Turbo AGC ON), B&W: 0.05 lx (50IRE, F1.2, Turbo AGC ON)			0.55 lx (50IRE, F1.2, AGC ON, Turbo mode)		
General						
Mass	approx. 380 g (13 oz) approx. 460 g (1 lb 1 oz)*including front and rear covers		approx. 400 g (14 oz) approx. 480 g (1 lb 8 oz)* including front and rear covers	approx. 360 g (12 oz) approx. 440 g (15 oz)* including front and rear covers		approx. 390 g (13 oz), approx. 470 g (1 lb)* including front and rear covers
Dimensions (W x H x D)	60 x 53 x 124 mm (2 3/8 x 2 1/8 x 5 inches) 60 x 53 x 246 mm (2 3/8 x 2 1/8 x 9 3/4 inches)*including front and rear covers			60 x 53 x 118 mm (2 3/8 x 2 1/8 x 4 3/4 inches), 60 x 53 x 240 mm (2 3/8 x 2 1/8 x 9 1/2 inches)* including front and rear covers		
Power requirements	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 to 240 V ±10%, 50 Hz	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 to 240 V ±10%, 50 Hz
Power consumption	4.0 W			3.5 W		
Operating temperature	-10 to 50°C (14 to 122°F)					
Storage temperature	-40 to 60°C (-40 to 140°F)					
Supplied accessories						
	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2)		Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2). Power cable	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2)		Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2). Power cable

	SSC-DC80	SSC-DC80P	SSC-DC83	SSC-DC83P	SSC-DC88P
Camera					
Image device	1/2-type CCD with Exwave HAD technology				
Number of effective pixels (H x V)	370,000 (768 x 494)	430,000 (752 x 582)	370,000 (768 x 494)	430,000 (752 x 582)	
Auto Gain Control	Turbo/Normal/Manual/Off				
White balance mode	ATW-pro/ATW/3200K/5600K/Manual				
Lens type	CS/C-mount (* C-mount adaptor is supplied), DC/Video servo auto iris				
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation	SPOT/WEIGHT/OFF switchable				
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative, S-Video x 1				
Signal system	NTSC	PAL	NTSC	PAL	
Sync system	Internal/VS/VD		Internal/AC Line lock/VS		
Horizontal Resolution	480 TV lines				
S/N ratio	More than 57 dB (AGC OFF, WEIGHT ON)				
Minimum illumination	0.4 lx (50IRE, F1.2, Turbo AGC ON)				
General					
Mass	approx. 560 g (1.4 oz)		approx. 550 g (1.3 oz)		approx. 600 g (1.5 oz)
Dimensions (W x H x D)	70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches) (including front and rear covers)				
Power requirements	Multiplexing with the YS-W170A/W270A, or DC 12 V ±10 %	Multiplexing with the YS-W170P/W270P, or DC 12 V ±10 %	AC 24 V ±10 %, 60 Hz or DC 12 V ±10 %	AC 24 V ±10 %, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10 %, 50 Hz
Power consumption	4.6 W		4.4 W		4.2 W
Operating temperature	-10 to 50°C (14 to 122°F)				
Storage temperature	-40 to 60°C (-40 to 140°F)				
Supplied accessories					
	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), C-mount adaptor				Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), Power cable

## Fixed-Type Cameras

	SSC-DC590	SSC-DC593	SSC-DC593P	SSC-DC598P
Camera				
Image device	1/3-type CCD with DynaView technology			
Number of effective pixels (H x V)	370,000 (768 x 494)		430,000 (752 x 582)	
Auto Gain Control	NORMAL/TURBO/MANUAL/OFF selectable			
White balance mode	ATW pro/ATW/3200K/5600K/MANUAL/DUAL WB selectable			
Lens type	CS-mount, DC/Video servo auto iris			
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s		ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation	DYNAVIEW/SPOT/WEIGHT/OFF selectable			
Day/Night function	Auto/External/Color/B&W selectable			
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative			
Signal system	NTSC		PAL	
Sync system	Internal/VS/VD	Internal/AC Line lock		
Horizontal Resolution	480 TV lines			
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)			
Minimum illumination	Color: 0.8 lx (50IRE, F1.4, Turbo AGC ON), B&W: 0.07 lx (50IRE, F1.4, Turbo AGC ON)			
General				
Mass	approx. 500 g (1 lb 2 oz)			
Dimensions (W x H x D)	70 x 57 x 129 mm (2 7/8 x 2 1/4 x 5 1/8 inches)			
Power requirements	Multiplexing with the YS-W170A/W270A or DC 12 V ±10%	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 to 240 V ±10%, 50 Hz
Power consumption	5.8 W			5.6 W
Operating temperature	-10 to 50°C (14 to 122°F)			
Storage temperature	-40 to 60°C (-40 to 140°F)			
Supplied accessories				
	Lens mount cap, Operating instructions, Menu operation manual			Lens mount cap, Operating instructions, Menu operation manual, AC power cable

	SSC-DC374	SSC-DC372P	SSC-DC378P	SSC-DC198P	SSC-DC174	SSC-DC172P
Camera						
Image device	1/3-type Super HAD CCD					
Number of effective pixels (H x V)	370,000 (768 x 494)	430,000 (752 x 582)		290,000 (500 x 582)	250,000 (510 x 492)	290,000 (500 x 582)
Auto Gain Control	TURBO/OFF switchable					
White balance mode	ATW					
Lens type	CS-mount, DC servo auto iris					
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s		ON/OFF switchable, 1/50 to 1/100,000 s		ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s
Back-Light Compensation	ON/OFF switchable					
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative					
Signal system	NTSC		PAL		NTSC	PAL
Sync system	AC Line lock	Internal	AC Line lock		Internal/AC Line lock	Internal
Horizontal Resolution	480 TV lines			330 TV lines		
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)					
Minimum illumination	0.8 lx (50IRE, F1.2, Turbo AGC ON)			0.6 lx (50IRE, F1.2, Turbo AGC ON)		
General						
Mass	approx. 355 g (13 oz)		approx. 385 g (14 oz)	approx. 390 g (14 oz)	approx. 355 g (12 oz)	
Dimensions (W x H x D)	60 x 54 x 120 mm (2 3/8 x 2 1/4 x 4 3/4 inches)					
Power requirements	AC 24 V ±10%, 60 Hz		DC 12 V ±10 %		AC 220 to 240 V ±10%, 50 Hz	AC 24 V ±10%, 60 Hz
Power consumption	3.6 W	3.2 W	4.0 W	3.7 W	3.4 W	DC 12 V ±10%
Operating temperature	-10 to 50°C (14 to 122°F)					
Storage temperature	-40 to 60°C (-40 to 140°F)					
Supplied accessories						
	Lens mount cap, Operating instructions		Lens mount cap, Operating instructions, AC power cable	Lens mount cap, Operating instructions	Lens mount cap, Operating instructions, AC power cable	Lens mount cap, Operating instructions

# SPECIFICATIONS

## ANALOG CAMERAS

### Fixed-Type Cameras

	SSC-M383	SSC-M383CE	SSC-M388CE	SSC-M183	SSC-M183CE	SSC-M188CE
Camera						
Image device	1/3-type CCD with Exwave HAD technology					
Number of effective pixels (H x V)	370,000 (768 x 494)	430,000 (752 x 582)		250,000 (510 x 492)	291,000 (500 x 582)	
Auto Gain Control	TURBO/OFF switchable					
White balance mode	ATW					
Lens type	CS-mount, DC/Video servo auto iris					
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s		ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation	ON/OFF switchable					
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative					
Signal system	EIA	CCIR		EIA	CCIR	
Sync system	Internal/AC Line lock		AC Line lock	Internal/AC Line lock		AC Line lock
Horizontal Resolution	570 TV lines			380 TV lines		
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)					
Minimum illumination	0.07 lx (50IRE, F1.2, Turbo AGC ON)			0.06 lx (50IRE, F1.2, Turbo AGC ON)		
General						
Mass	approx. 360 g (13 oz)		approx. 390 g (14 oz)	approx. 360 g (13 oz)		approx. 390 g (14 oz)
Dimensions (W x H x D)	60 x 54 x 120 mm (2 3⁄8 x 2 1⁄4 x 4 3⁄4 inches)					
Power requirements	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10 %, 50 Hz	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 to 240 V ±10 %, 50 Hz
Power consumption	2.6 W			2.5 W		
Operating temperature	-10 to 50°C (14 to 122°F)					
Storage temperature	-40 to 60°C (-40 to 140°F)					
Supplied accessories						
	Lens mount cap, Operating instructions		Lens mount cap, Operating instructions, AC power cable	Lens mount cap, Operating instructions		Lens mount cap, Operating instructions, AC power cable

### Mini Dome Cameras

	SSC-CD73V	SSC-CD73VP	SSC-CD43V	SSC-CD43VP
Camera				
Image device	1/4-type Super HAD CCD			
Number of effective pixels (H x V)	370,000 (768 x 494)	430,000 (752 x 582)		430,000 (752 x 582)
Auto Gain Control	TURBO/OFF switchable			
White balance mode	ATW			
Lens type	Vari-focal lens, CS-mount, DC servo auto iris			
Focal length	f=3.0 to 8.0 mm			
Viewing angle	W=84.6°(D), 66.6°(H), 49.3°(V) T=33.8°(D), 27°(H), 20.2°(V)		W=84.7°(D), 66.6°(H), 49.3°(V) T=33.6°(D), 26.9°(H), 20.1°(V)	
CCD iris	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s
Minimum object distance	0.2 m			
Back-Light Compensation	ON/OFF switchable			
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative			
Signal system	NTSC	PAL	NTSC	PAL
Sync system	Internal/AC Line lock			
Horizontal Resolution	480 TV lines		480 TV lines	
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)			
Minimum illumination	Color: 0.9 lx (50IRE, F1.0, AGC ON), B&W: 0.2 lx (50IRE, F1.0, AGC ON)		Color: 0.8 lx (50IRE, F1.0, AGC ON)	
General				
Mass	approx. 1,150 g (2 lb 10 oz)		approx. 440 g (16 oz)	
Dimensions (W x H x D)	147 x 111 x 148 mm (5 7/8 x 4 3/8 x 5 7/8 inches)		121 x 107 x 123 mm (4 7/8 x 4 1/4 x 4 7/8 inches)	
Power requirements	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or 12 V ±10%	AC 24 V ±10%, 60 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or 12 V ±10%
Power consumption	3.6 W		3.3 W	
Operating temperature	-20 to 50°C (-4 to 122°F)			
Storage temperature	-40 to 60°C (-40 to 140°F)			
Supplied accessories				
	Screw TP4 x 30 (4), Monitor cable, Screwdriver, External control terminal connector, Operating Instructions		Screw TP4 x 30 (2), Dome cover screw, Monitor cable, Operating Instructions	

## CAMERA ADAPTORS

	YS-W270A	YS-W270P	YS-W170A	YS-W170P
Video output	BNC (x 8), composite video		BNC (x 2), composite video	
Signal system	NTSC	PAL	NTSC	PAL
Video input	Camera in, BNC (x 4)		Camera in, BNC (x 1)	
External sync	VS or VD-W			
Internal sync	MPX-VS or MPX-VD-W			
Max. cable length	300 m (984 ft) using RG-59B/U 500 m (1640 ft) using RG-6A/U 600 m (1968 ft) using RG-11A/U			
Cable compensation	3 positions			
Power requirements	AC 120 V, 60 Hz	AC 220 to 240 V, 50 Hz	AC 120 V, 60 Hz	AC 220 to 240 V, 50 Hz
Power consumption	92 W	49.5 W	27 W	15 W
Operating temperature	-10 to 50°C (14 to 122°F)			
Mass	3.8 kg (8 lb 6 oz)		1.9 kg (4 lb 3 oz)	
Dimensions (W x H x D)	424 x 52 x 345 mm (16 3/4 x 2 1/8 x 13 5/8 inches)		212 x 52 x 345 mm (8 8/16 x 2 1/8 x 13 5/8 inches)	

## INTELLIGENT MONITORING SOFTWARE SYSTEM REQUIREMENTS

IMZ-RS300 Series	
<b>Intelligent Monitoring Software</b>	
Operating system*	Windows 2000, Windows XP or Windows 2003 Server
Processor	CPU: Pentium IV 2.4 GHz or higher
Memory	RAM: 512 MB or more
HDD	2 GB spare capacity
Video Card	1024 x 768, 16/24-bit color
Network Interface Card (NIC)	100Base-T
Display	Full-color display
<b>Web Gateway</b>	
Operating system	Windows 2000 or Windows XP
Java Runtime**	Java Runtime Environment 1.4.2
Web Application Server**	Apache Tomcat 5.0.18
Web Browser	Internet Explorer Version 6.0 or later
Processor	CPU: Pentium IV 2.4 GHz or higher
Memory	RAM: 512 MB or more
HDD	500 MB spare capacity
Video Card	1024 x 768, 16/24-bit color
Network Interface Card (NIC)	100Base-T
<b>Compression Server</b>	
Operating system	Windows 2000 or Windows XP
Processor	CPU: Pentium IV 2.4 GHz or higher
Memory	RAM: 512 MB or more
HDD	500 MB spare capacity
Video Card	1024 x 768, 16/24-bit color
Network Interface Card (NIC)	100Base-T
<b>Intelligent Monitoring Software Web Viewer</b>	
Operating system	Windows 2000 or Windows XP
Java Runtime***	Java Runtime Environment 1.4.2
Web Browser	Internet Explorer Version 6.0 or Later
Processor	CPU: Celeron 2.0 GHz or higher
Memory	RAM: 512 MB or more
HDD	500 MB spare capacity
Video Card	1024 x 768, 16/24-bit color
Network Interface Card (NIC)	100Base-T

\* Please contact your local Sony office or authorized dealer for compatibility information on the Linux Operating System.

\*\* Both Java Runtime Environment and Web Application Server are included in the Web Gateway Module. \*\*\* Downloadable from Web Gateway.

# SPECIFICATIONS

## NETWORK RECORDERS

NSR-100				NSR-50		NSR-25	
Video/Recording							
Number of IP Cameras Supported		64 Max.			32 Max.		20 Max
Video Compression		MPEG-4 or JPEG					
Maximum Recording Rate*		480 fps			240 fps		120 fps
Hard Disk Drives	Physical Capacity	1,000 GB (250 GB x 4)			500 GB (250 GB x 2)		250 GB (250 GB x 1)
	Interface	Serial ATA					—
	RAID Level/Recording Capacity (approx.)	Hardware RAID (Hot Swappable when set to RAID 5 or RAID 1)			Software RAID		—
		RAID 5 (Default) 700 GB	RAID 1 460 GB	RAID 0 940 GB	SPAN (Default) 460 GB	RAID 1 210 GB	
Network File System (for NAS)		Supports NFS Version 3 protocol					
Video Interface							
Monitor OUT	#1	RGB connector x2 (Front and Rear Panel, cannot be used simultaneously)					RGB connector x1
	#2	RGB connector x1					
Video Output		S-Video x1					—
Analog Composite OUT		RCA-pin x2 (Front and Rear Panel, cannot be used simultaneously)					—
Audio Interface							
Mic IN		Mini jack x1 (front), x 1 (rear)					Mini jack x 1 (rear)
Line OUT		RCA-pin, L/R x1 stereo pair, (front and rear panel)					RCA-pin, L/R x1 stereo pair (rear)
Sensor/Alarm							
Sensor in		8-channel photo-coupler (DC3.3-24V)					
Alarm out		8-channel relay (Max. 24V 1A)					
Other Interfaces							
Ethernet		1000Base-T/100Base-TX/10Base-T x3 (automatic switching)					1000Base-T/100Base-TX/10Base-T x1
USB		Front x2, Rear x2					Rear x 2
Serial interface		RS-232C x1 (for UPS)**					
General							
Dimensions (W x H x D)		430 x 87 x 417 mm (17 x 3 1/2 x 16 1/2) excluding protrusions					
Mass		approx. 13 kg (28 lb 11 oz)			approx. 12 kg (26 lb 7 oz)		approx. 11 kg (24 lb 4 oz)
Power requirements		AC 100 to 127/AC 200 to 240 V					
Power consumption		approx. 300 W (350 W max.)			approx. 200 W (350 W max.)		approx. 170 W (350 W max.)
Operating temperature		5 to 40° C (41 to 104° F)					
Operating humidity		10 to 80% (non-condensing)					
Supplied accessories		Front panel key, Installation guide, Remote control unit operation card, Recovery CD, Manual/Tool/ Source codes CD, Rubber feet (4)					

\* Recording frame rates shown in the table represents the total frame rate per recorder unit when recording images at JPEG, Level 5 using the SNC-RZ30, and without live image monitoring.

\*\* Please contact your local Sony sales office for a list of recommended UPS systems.

# DIGITAL HARD DISK RECORDERS

HSR-J2009		HSR-J2009P		HSR-J2016		HSR-J2016P		
Video								
Input	9 channels, VBS, VS (BNC type) 1.0 Vp-p, 75 Ω, unbalanced			16 channels, VBS, VS (BNC type) 1.0 Vp-p, 75 Ω, unbalanced				
Output	9 channels, VBS, VS (BNC type) 1.0 Vp-p, 75 Ω, unbalanced			16 channels, VBS, VS (BNC type) 1.0 Vp-p, 75 Ω, unbalanced				
Monitor output	VBS, VS 1.0 Vp-p, 75 Ω, unbalanced (BNC type x 2 ), S-VIDEO (Mini DIN 4-pin x 1)							
Video output	RCA x 1							
Video compression	JPEG 2000							
Picture quality mode	Hyper : 42 KB/picture* Super : 34 KB/picture* High : 26 KB/picture* Mid : 16 KB/picture* Low : 10 KB/picture*							
Picture resolution	720 x 240 pixels (field mode)		720 x 288 pixels (field mode)		720 x 240 pixels (field mode)		720 x 288 pixels (field mode)	
Horizontal resolution	More than 500 TV lines (Hyper mode)							
Signal-to-noise ratio	48 dB (typical, Hyper mode)							
Audio								
Mic input	1 channel Monaural (Mini jack), -60 dBs, 10 kΩ, unbalanced							
Line input	2 channels Monaural (Phono jack), -8 dBs, 27 kΩ, unbalanced							
Line output	1 channel Monaural (Phono jack), -8 dBs, 600 Ω, unbalanced							
Signal-to-noise ratio	38 dB (typical)							
Distortion	Less than 4% at 1 kHz							
Network interface								
Ethernet	100Base-TX/10Base-T							
Network protocol	TCP/IP, HTTP, DHCP, SMTP, PPP, NTP							
Alarm and control input/output								
SCSI	68-pin half pitch D-sub							
USB	Version 2.0, x2							
RS-485 (A, B)	RJ-11							
Alarm in	Normal open (Low active), x9			Normal open (Low active), x16				
Sensor alarm out	5 V, 5.7 kΩ (Low active), x9			5 V, 5.7 kΩ (Low active), x16				
Remote1/Remote2	Push-lock terminal							
Clock set in	Normal open (Low active)							
Clock set out	DC 5 V, 5.7 kΩ (Low active)							
External timer in	Normal open (Low active)							
Alarm out	DC 5 V, 5.7 kΩ (Low active)							
Alarm reset out	Normal open (Low active)							
Non rec out	DC 5 V, 5.7 kΩ (Low active)							
Warning out	DC 5 V, 5.7 kΩ (Low active)							
Disk full out	DC 5 V, 5.7 kΩ (Low active)							
General								
Mass	7.1 kg (15 lb 10 oz)			7.2 kg (15 lb 14 oz)				
Dimensions	420 (W) x 96 (H) x 376 (D) mm (16 <sup>5</sup> / <sub>8</sub> x 3 <sup>7</sup> / <sub>8</sub> x 14 <sup>7</sup> / <sub>8</sub> inches)							
Power requirements	AC 120 V, 60 Hz		AC 220 V, 50/60 Hz		AC 120 V, 60 Hz		AC 220 V, 50/60 Hz	
Power consumption	40 W		40 W		48 W		48 W	
Operating temperature	5 to 40°C (41 to 104°F)							
Operating humidity	Less than 80%							
Built-in HDD capacity	500 GB (250 GB x 2)							
Card slot	Compact Flash type II							
Supplied accessories								
AC power cord, AC power cord tie, Rack mount kit, Installation manual, Operation manual(CD-R)								

\*Each image includes header information of 2 KB.

## SPECIFICATIONS

### DIGITAL HARD DISK RECORDERS

HSR-X206		HSR-X206P	
Video			
Input	6 channels, VBS, VS (BNC) 1.0 Vp-p, 75 $\Omega$ , unbalanced		
Output (Loop through)	6 channels, VBS, VS (BNC) 1.0 Vp-p, 75 $\Omega$ , unbalanced		
Monitor output 1	1 channel, VBS, VS (BNC) 1.0 Vp-p, 75 $\Omega$ , unbalanced		
Monitor output 2	1 channel, VBS, VS (BNC) 1.0 Vp-p, 75 $\Omega$ , unbalanced		
Video compression	Motion-JPEG		
Picture quality mode	HYPER: 52 kB/picture, SUPER: 44 kB/picture, HIGH: 32 B/picture, MID: 24 kB/picture, LOW: 17 kB/picture		
Picture resolution	720 x 240 pixels (Field mode)	720 x 288 pixels (Field mode)	
Horizontal resolution	More than 500 TV lines (Hyper mode)		
Signal to noise ratio	48 dB (typical, Hyper mode)		
Audio			
MIC input	1 channel monaural (Mini jack), -60 dB, 10 k $\Omega$ , unbalanced		
Line input	1 channel monaural (Phono jack), -8 dB, 27 k $\Omega$ , unbalanced		
Line output	1 channel Monaural (Phono jack), -8 dB, 600 $\Omega$ , unbalanced		
Signal to noise ratio	40 dB (typical)		
Distortion	Less than 4 % at 1 kHz		
Network Interface			
Ethernet	100Base-TX/10Base-T		
Alarm and Control Inputs/Outputs			
Alarm in 1-6	Normal open, Low active		
Sensor Alarm out 1-6	Open collector, Low active		
Remote 1/Remote 2	2-wire type with resistance-based identification system		
Alarm out	Open collector, Low active		
Alarm reset	Incl. video loss reset, normal open, Low active		
Clock set in	Normal open, Low active		
Clock set out	5 V/5.7 k $\Omega$ , Low active		
Non rec out	Video loss alarm selectable, 5V/5.7 k $\Omega$ , Low active		
Warning out	5 V/5.7 k $\Omega$ , Low active		
Disk full out	5 V/5.7 k $\Omega$ , Low active		
Alarm full out	5 V/5.7 k $\Omega$ , Low active		
External timer in	Normal open, Low active		
General			
Mass	6.4 kg (14 lb 1 oz)		
Dimensions (W x H x D)	420 x 96 x 376 mm (16 <sup>5</sup> / <sub>8</sub> x 3 <sup>7</sup> / <sub>8</sub> x 14 <sup>7</sup> / <sub>8</sub> )		
Power requirements	AC 120 V, 60 Hz	AC 220 V, 50/60 Hz	
Power consumption	32 W		
Operating temperature	5 to 40°C (41 to 104°F)		
Operating Humidity	Less than 80%		
HDD capacity	320 GB (160 GB x 2)		
Supplied accessories			
AC power cord (1), Power cord tie (1), Rack mount kit (1), Operation Manual (1), Ferrite core (HSR-X206 (2), HSR-X206P (4))			



# VIDEO NETWORK STATIONS

SNT-V704	
Analog Video Interface	
Video input	Analog composite (BNC x 4), 1.0 Vp-p, 75 $\Omega$ , unbalanced, sync negative, Auto sensor for NTSC or PAL
Video output	Analog composite (BNC x 4), 1.0 Vp-p, 75 $\Omega$ , unbalanced, sync negative (loop-through)
Audio	
Audio compression	G.711 (64Kb/s)
Mic in	Mini-jack (Monaural) Supports Plug-in power system (5.0 V DC)
Line out	Mini-jack (Monaural x 2ch) Maximum output level 1.1 Vrms
Line in	Mini-jack (Monaural x 2ch) Maximum output level 1.1 Vrms
System/Network	
CPU	64-bit RISC processor
RAM	128 MB (including 32 MB alarm buffer)
Flash memory	32 MB
Image size	
NTSC	Frame mode: 720 x 480, 640 x 480, Field mode: 320 x 240, 720 x 480, 640 x 480
PAL	Frame mode: 720 x 576, 640 x 480 Field mode: 320 x 240, 720 x 576, 640 x 480
Compression method	JPEG/MPEG-4
Compression ratio	Variable in*
Frame rate	
NTSC	Max. 30 fps x 4ch (720 x 480)
PAL	Max. 25 fps x 4ch (720 x 480)
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, SNMP (MIB-2)
Number of clients	Maximum of 50
Interface	
Ethernet	100Base-TX/10Base-T (RJ-45)
Sensor input	4 (3.3 to 24 V device supported, photocoupler inputs are electrically isolated from the camera)
Alarm output	4 (24 V DC or less, 1A, mechanical relay outputs are electrically isolated from the camera)
Serial interface	RS-485/RS-232C (for camera control or transparency function)
USB Port	USB 2.0
General	
Mass	Approx. 1.2 kg (2 lb 10 oz)
Dimensions (W x H x D)	210 x 42 x 202 mm (8 <sup>3</sup> / <sub>8</sub> x 1 <sup>11</sup> / <sub>16</sub> x 8 inches)
Power requirements	DC 12 V (AC adaptor included)
Power consumption	18 W
Operating temperature	-10 to 40°C (14°F to 104°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
Operating humidity	20 to 80%, Non-condensing
Storage humidity	20 to 95%, Non-condensing
Supplied accessories	
CD-ROM (setup program and User's Guide), I/O receptacle (2), AC adaptor, AC cord, Installation manual	

\* The compression ratio is based on an image of 24 bits/picture element (8 bits each for R, G, and B)

# SPECIFICATIONS

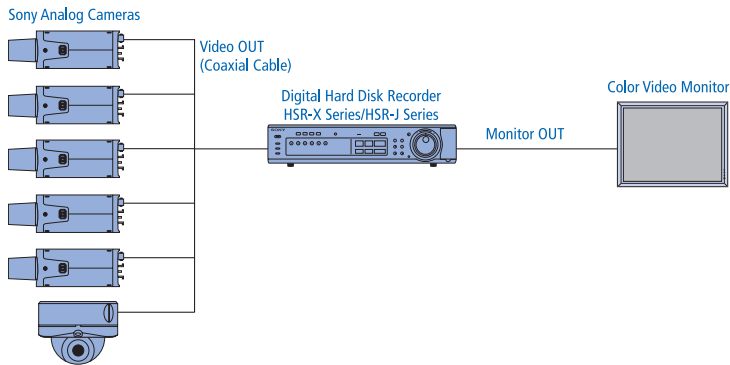
## MONITORS

LMD-1410SC		LMD-2010SC	
Picture Performance			
Type	A-Si TFT Active Matrix LCD		
Resolution	640 x 480 pixels		
Pixel efficiency	99.99%		
Dot pitch	0.443 x 0.443 mm	0.213 x 0.638 mm	
Picture Size (H x W)	Approx. 283 x 212 mm (Approx. 11 1/4 x 8 3/8 inches)		Approx. 408 x 306mm (Approx. 16 1/8 x 12 1/8 inches)
(Diagonal)	354 mm (14-inch)		510 mm (20.1-inch)
Aspect	4:3/16:9 switchable		
Colors	Approx. 16,200,000 colors		Approx. 16,700,000 colors
Viewing Angle	85°/85°/85°/85° (typical) (up/down/left/right contrast>10:1)		
Input			
Line A	Composite	BNC x 1, 1.0 Vp-p ±3 dB 75 Ω termination, sync 0.3 Vp-p negative	
	Y/C	DIN 4 pin x 1 Y: 1.0Vp-p ±3 dB, 75 Ω termination C: 0.286 Vp-p ±3 dB (NTSC), 0.3 Vp-p ±3 dB (PAL), 75 Ω termination, sync 0.3 Vp-p negative	
	Audio in	RCA pin x 1, -5 dBu 47 Ω or higher	
Line B	Composite	BNC x 1, 1.0 Vp-p ±3dB 75 Ω termination, sync 0.3 Vp-p negative	
	Audio in	RCA pin x 1, -5 dBu 47 Ω or higher	
RGB/Component			
	RGB/Component	BNC x 3, 0.7 Vp-p ±3 dB 75 Ω termination, Sync on Green 0.3Vp-p, negative	
	Audio in	RCA pin x 1, -5 dBu 47 Ω or higher	
Remote	Parallel remote	Modular 8-pin (Assignable)	
Output			
Line A	Composite	BNC x 1, Loop-through, with 75 Ω automatic termination	
	Y/C	DIN 4 pin x 1, Loop-through, with 75 Ω automatic termination	
	Audio out	RCA pin x 1	
Line B	Composite	BNC x 1, Loop-through, with 75 Ω automatic termination	
	Audio out	RCA pin x 1, Loop-through	
RGB/Component			
	RGB/Component	BNC x 3, Loop-through, with 75 Ω automatic termination	
	Audio out	RCA pin x 1, Loop-through	
General			
Power Consumption	Approx. 48 W		Approx. 84 W
Power requirement	AC 100 to 240 V, 50/60 Hz		
Operating Temperature	0 to 35 °C		
Operating Humidity	30 to 85% (Non-condensing)		
Storage & Transport Temperature	-10 to 40 °C		
Storage & Transport Humidity	0 to 90 %		
Operating/Storage/Trans. Pressure	700 to 1060 hPa		
Dimensions (W x H x D)			
	Dimension	Approx. 343 x 354 x 264 mm (13 5/8 x 14 x 10 1/2 inch)	
	Dimension without stand	Approx. 343 x 304 x 87mm (13 5/8 x 12 1/2 inch)	
Mass	Panel & Stand	Approx. 6.5 Kg (14 lb 5 oz)	
	Panel only	Approx. 4.8 kg (10 lb 9 oz)	
Supplied Accessories	AC power cord, AC plug holder, Operating Instructions, CD-ROM, "Using the CD-ROM Manual" booklet, Warranty card		

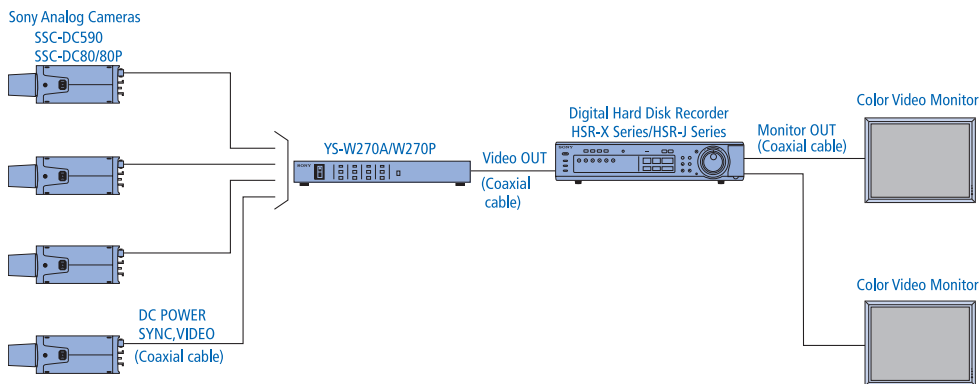
# SYSTEM CONFIGURATIONS

## CCTV Systems

### Multiple Camera Operation



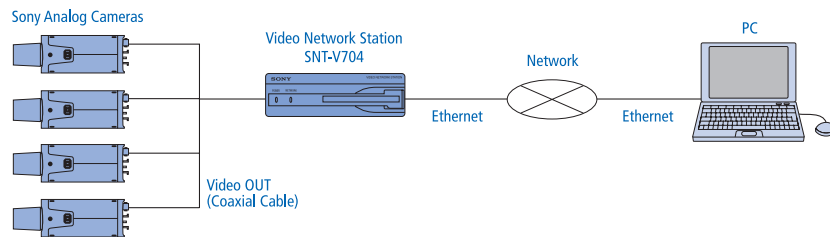
### Multiple Camera Operation (Using the YS-W270A/W270P Camera Adaptor)



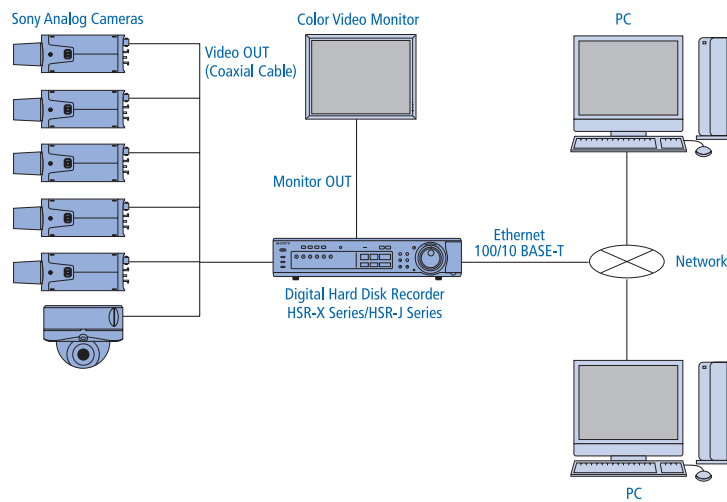
# SYSTEM CONFIGURATIONS

## IP-Based Video Monitoring Systems using Analog Cameras

### Multiple Camera Operation over a Network (Using the SNT-V704)

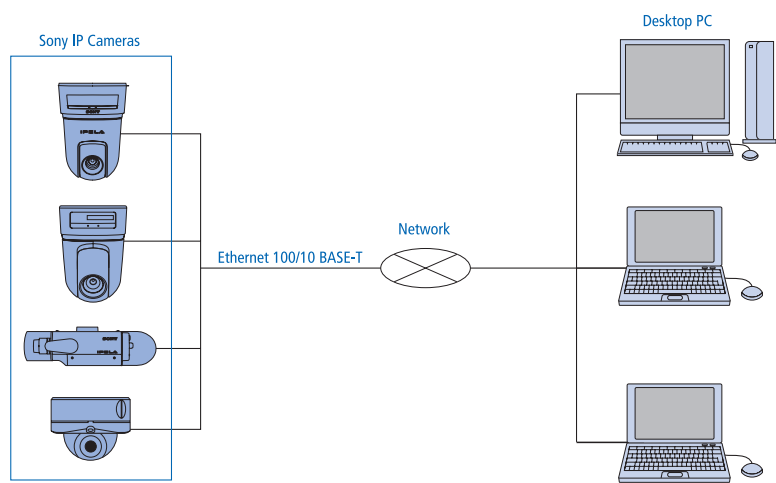


### Multiple Camera Operation over a Network (Using the HSR-X Series/HSR-J Series)

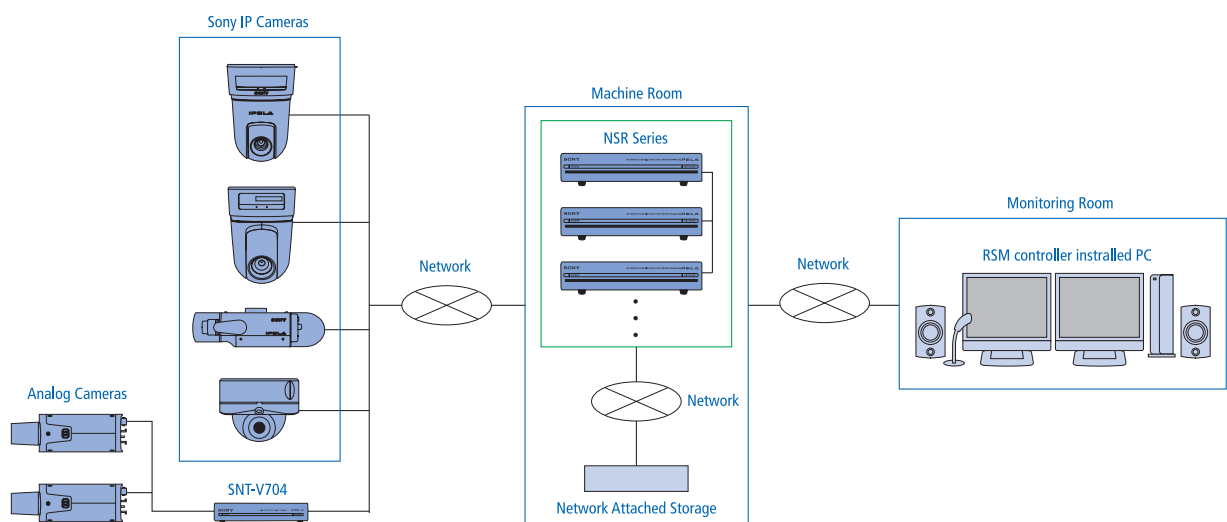


# IP Video Monitoring Systems

## Single or Multiple Camera Operation



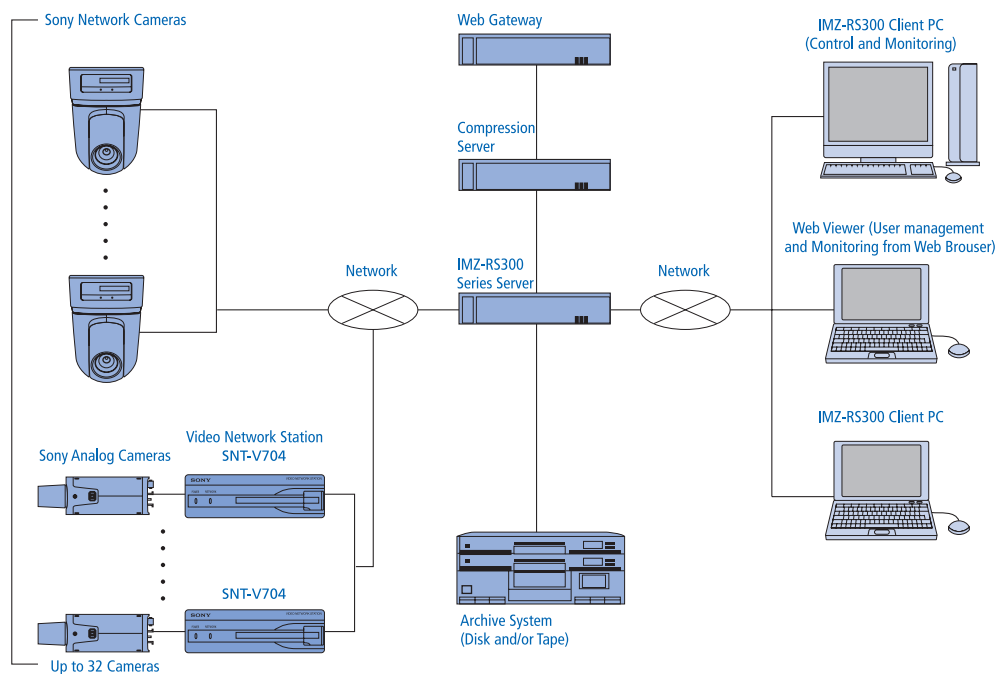
## NSR Series Client-Server Operation



# SYSTEM CONFIGURATIONS

## IP Video Monitoring Systems

### IMZ-RS300 Series Operation





# SONY

---

**Distributed by**

©2006 Sony Corporation. All rights reserved.  
Reproduction in whole or in part without written permission is prohibited.  
Features and specifications are subject to change without notice.  
All non-metric weights and measures are approximate.  
Sony is a registered trademark of Sony Corporation.  
SuperExwave, Exwave HAD, Super HAD CCD, DynaView, IPELA, VISCA,  
Memory Stick, Memory Stick Duo are trademarks of Sony Corporation.  
All other trademarks are the property of their respective owners.